AEROSPACE MEDICINE AND BIOLOGY

1993 CUMULATIVE INDEX



(NASA-SP-7011(384)) AEROSPACE MEDICINE AND BIOLOGY: A CUMULATIVE INDEX TO A CONTINUING BIBLIOGRAPHY (SUPPLEMENT 384) (NASA) 245 P N94-28219

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AEROSPACE MEDICINE AND BIOLOGY

1993 CUMULATIVE INDEX

SUPPLEMENTS COVERED IN THIS ISSUE

Document	Page Range	Date	Coverage
NASA SP-7011(372)	1-36	February 1993	January 1993
NASA SP-7011(373)	37-72	March 1993	February 1993
NASA SP-7011(374)	73-110	April 1993	March 1993
NASA SP-7011(375)	111-150	May 1993	April 1993
NASA SP-7011(376)	151-198	June 1993	May 1993
NASA SP-7011(377)	199-238	July 1993	June 1993
NASA SP-7011(378)	239-270	August 1993	July 1993
NASA SP-7011(379)	271-322	September 1993	August 1993
NASA SP-7011(380)	323-356	October 1993	September 1993
NASA SP-7011(381)	357-374	November 1993	October 1993
NASA SP-7011(382)	375-396	December 1993	November 1993
NASA SP-7011(383)	397-412	January 1994	December 1993

This publication was prepared by the NASA Center for AeroSpace Information, 800 Elkridge Landing Road, Linthicum Heights, MD 21090-2934, (301) 621-0390.

INTRODUCTION

WHAT THIS CUMULATIVE INDEX IS

This publication is a cumulative index to the abstracts contained in NASA SP-7011 (372) through NASA SP-7011 (383) of *Aerospace Medicine and Biology: A Continuing Bibliography*. NASA SP-7011, and by means of supplements, serves as a current abstracting and announcement journal for references on bioscience and biotechnology. It has been compiled through the cooperative efforts of the American Institute of Aeronautics and Astronautics (AIAA), and the National Aeronautics and Space Administration (NASA). Entries prepared by the two contributing organizations are identified as follows:

- 1. NASA entries by their STAR accession numbers (N93-10000).
- 2. AIAA entries by their IAA accession numbers (A93-10000).

HOW THIS CUMULATIVE INDEX IS ORGANIZED

This Cumulative Index includes a subject, personal author, corporate source, foreign technology, contract number, report number, and accession number index.

HOW TO USE THE SUBJECT INDEX

Two types of cross-references appear in the subject index:

1. Use (U) references indicate that the subject term is not "postable," i.e., not a valid term, and that the following term or terms are used instead. For example:

DOSE

U DOSAGE

AIRLINERS

- U COMMERCIAL AIRCRAFT
- U PASSENGER AIRCRAFT
- Narrower Term (NT) references refer the user to more specific headings in the same subject area, under which additional material on the subject may be found. For example:

FATIGUE (BIOLOGY)

NT AUDITORY FATIGUE

NT FLIGHT FATIGUE

NT MUSCULAR FATIGUE

In addition, a searcher may use the title or title and title extension in the index to narrow further his quest for particular items; this is because subject terms may include documents on different aspects of the same subject term. For example:

BIOLOGICAL EFFECT

Vibratory force effect upon biological systems, particularly human organism.

Biological effect of cosmic and solar radiations on human body at high altitudes.

HOW TO USE THE PERSONAL AUTHOR INDEX

All personal authors used in the abstract section citations in the individual supplements appear in the index. Differences in translation schemes may require multiple searching on the index for variants of an author's name. For example:

EMELIANOV, M. D.

and

YEMELYANOV, M. D.

HOW TO USE THE CORPORATE SOURCE INDEX

The corporate source index entries are abridged versions of the corporate sources used in the abstract section citations in the individual supplements. The corporate source supplementary (organizational component) does not appear in the index. For example:

BOEING CO., SEATTLE, WASH. MILITARY AIRCRAFT SYSTEMS DIV. BOEING CO., SEATTLE, WASH.

(Source citation entry)

(Source index entry)

HOW TO USE THE FOREIGN TECHNOLOGY INDEX

The foreign technology index identifies research performed outside of the United States. Listings in this index are arranged alphabetically by country of intellectual origin. For example:

CHINA, PEOPLE'S REPUBLIC OF

HOW TO USE THE CONTRACT NUMBER INDEX

All contract numbers that are identified in the abstract section citations in the individual supplements appear in this index. Changes by agencies in the style in which contract numbers are presented may require multiple searching for variants. For example:

AF 33(615)-71-C-1758 F33615-71-C-1758

HOW TO USE THE REPORT NUMBER INDEX

All report numbers that have been assigned by the corporate source, monitoring agency or cataloging activity appear in this index. Variations in cataloging may result in different report number series. For example:

TP-924 ONERA-TP-924

HOW TO USE THE ACCESSION NUMBER INDEX

All documents that were acquired, indexed, and announced in STAR during the year which have been assigned a unique identification number appear in this index. For example:

N93-10001 N93-10002

IDENTIFICATION OF DESIRED SUPPLEMENT

The abstract and descriptive cataloging for any accession number selected from the indexes may be found in the appropriate supplement. The page number range of each supplement appears on page ii of this index. Once the range of page numbers containing the selected accession number is located in the second column, the desired supplement number will be found in the first column. For example:

Page 333 will be found in Supplement 380

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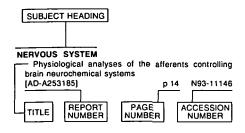
TABLE OF CONTENTS

Subject Index	A-1
Personal Author Index	B-1
Corporate Source Index	C-1
Foreign Technology Index	D-1
Contract Number Index	E-1
Report Number Index	F-1
Accession Number Index	G-1

AEROSPACE MEDICINE AND BIOLOGY / A Continuing Bibliography 1993 Cumulative Index

January 1994

Typical Subject Index Listing



The subject heading is a key to the subject content of the document. The title is used to provide a description of the subject matter. When the title is insufficiently descriptive of document content, a title extension is added, separated from the title by three hyphens. The accession number and the page number are included in each entry to assist the user in locating the abstract in the abstract section. If applicable, a report number is also included as an aid in identifying the document. Under any one subject heading, the accession numbers are arranged in sequence.

ABDOMEN

Windblast tolerance of human thorax and abdomen p 91 A93-19992

ABIOGENESIS

Comet Halley as an aggregate of interstellar dust and further evidence for the photochemical formation of organics in the interstellar medium p 108 A93-17824 Why are hydrothermal systems proposed as plausible p 73 A93-18001 environments for the origin of life? Hydrothermal systems - Their varieties, dynamics, and suitability for prebiotic chemistry p 73 A93-18002 Chemical markers of prebiotic chemistry in hydrothermal p 74 A93-18006 Hydrothermal organic synthesis experiments

p 74 A93-18007 Mineral theories of the origin of life and an iron sulfide example p 74 A93-18009

Future research --- abiogenesis in hydrothermal p 74 A93-18010

Carbonaceous chondrites and the origin of life p 412 A93-55997

Oligomerization reactions of ribonucleotides - The reaction of the 5'-phosphorimidazolide of adenosine with diadenosine pyrophosphate on montmorillonite and other p 412 A93 55998

Self-programming of matter and the evolution of proto-biological organizations |DE92-015244|

p 5 N93-10628

ABSORBENTS

Portable life support system regenerative carbon dioxide and water vapor removal by metal oxide absorbents preprototype hardware development and testing JSAE PAPER 9212991

p 303 A93-41464 breadboard liquid-sorbent/membrane-contactor system for removing carbon dioxide and water vapor from air |SAE PAPER 921321| p 304 A93-41483

Comparisons of molecular sieve oxygen concentrators for potential medical use aboard commercial aircraft IAD-A2536481 p 31 N93-11279

ABSORPTION

Dermal exposure assessment: Principles and applications [PB92-205665] p 12 N93-10438

ABSTRACTS

Aerospace medicine and biology: A continuing bibliography with indexes (supplement 370)

[NASA-SP-7011(370)] / p 121 N93-18108 Abstracts of papers presented at the annual meeting of the Society of General Physiologists

p 121 N93-18211 [AD-A257718] Digest of Russian Space Life Sciences, issue 33

Planetary Biology and Microbial Ecology: Molecular Ecology and the Global Nitrogen cycle

[NASA-CR-4497]

ACCELERATED LIFE TESTS

AFRRI reports

p 49 N93-12649 [AD-A254581] ACCELERATION (PHYSICS)

A proposal to determine properties of the gravitropic response of plants in the absence of a complicating g-force (GTHRES)

[NASA-CR-192219] p 114 N93-19377 G-load effects and efficient acoustic parameters for p 146 N93-19775 robust speaker recognition Visual processing of object velocity and acceleration IAD-A2610481 p 265 N93-25778

ACCELERATION STRESSES (PHYSIOLOGY)

Effects of sustained + Gz stress on BAEP in waked p 10 A93-13531 rabbits Response characteristics of semicircular canal in cats p 3 A93-13536 under linear acceleration Observation of change in cytochrome oxidase content of cerebral cortex in rat under + Gz stress

p 3 A93-13543 Effects of + Gz stress on medium- and long-latency p 11 A93-13708 auditory evoked responses Effects of positive acceleration on the microcirculation

of rabbit conjunctiva, mesentery, skin, and pia mater p 4 A93-13709 Electromyographic activity while performing the anti-G

straining maneuver during high sustained acceleration p 47 A93-16155

Effect of hypergravity on astronauts in space flight

p 48 A93-16254 Cerebral blood flow during +Gz acceleration as p 84 A93-17532 measured by transcranial Doppler Comparison between VDV and a(rms) using simulated impulsive vibration p 91 A93-19991 Effects of + Gy stress on human body

p 92 A93-19997 Flight helmet weight, + Gz forces, and neck muscle train p 136 A93-24046

Lower body negative pressure system for simulation of Gz-induced physiological strain p 119 A93-25210 Methods for test and evaluation of night vision goggle integrated helmets p 188 A93-27182

Gravitational stress and volume regulation

p 165 A93-28709 Efficiency of using iterative hypoxic hypercapnic stimuli for enhancing cardiorespiratory reserves under the effect p 249 A93-35244 of radial accelerations

Motion sickness induced sinusoidal linear acceleration in rats p 272 A93-39712 Investigation on requirements for ejection acceleration

p 332 A93-44847 measuring system Acceleration-induced effects baboon blood chemistry

p 376 A93-49224 Determinants of + Gz-related neck pain - A preliminary p 380 A93-49227 survey Perfusion of the visual cortex during pressure breathing

at different high-G stress profiles p 401 A93-55167 The accelerative stimulus for motion sickness p 410 A93-55938

Acquisition of physiological data during G-induced Loss of Consciousness (G-LOC) p 335 N93-30400

ACCELERATION TOLERANCE

Electromyographic activity while performing the anti-G straining maneuver during high sustained acceleration p 47 A93-16155

The effects of variations in the anti-G straining maneuver on blood pressure at +Gz acceleration

p 118 A93-25204 The effect of G-LOC on psychomotor performance and p 130 A93-25205

Investigation on requirements for ejection acceleration p 332 A93-44847 measuring system Perceptual scaling of whole-body low frequency linear

oscillatory motion p 379 A93-49225 Comment on 'Optimum vehicle acceleration profile for p 379 A93-49225 minimum human injury' by C. P. Hatsell

p 392 A93-49607 Incidence of cardiac dysrhythmias occurring during p 384 A93-52297 centrifuge training Acute hypertensive response to +Gz acceleration in p 386 A93-52307 mildly hypertensive pilots

The limits of human impact acceleration tolerance p 400 A93-52692 | AIAA PAPER 93-3572 | The effect of variable seat back angles on human

response to +Gz impact accelerations [AD-A250673] p 31 N93-11559 Issues on human acceleration tolerance after

long-duration space flights [NASA-TM-104753] Transmission of vibration through the human body to

the head: A summary of experimental data p 361 N93-32237

ACCIDENT INVESTIGATION

Occupant kinematics simulation of the Kegworth air p 142 N93-19662 The influence of individual sensivity to stress on the behavior (attitude and performance) of avoidance of an p 134 N93-19705

ACCIDENT PREVENTION

Failure mode workload theory and planning p 349 A93-42848 Assessment of morale in Turkish Air Force pilots with p 133 N93-19660 two clinical psychological tests Cognitive factors in the air events of the Air Force during the last decade p 134 N93-19682

The influence of individual sensivity to stress on the behavior (attitude and performance) of avoidance of an p 134 N93-19705 accident

Contribution of the analysis of ocular activity (complementary to the electroencephalographic analysis) to the detection of low vigilance in instances of piloting p 127 N93-19708 Effectiveness of birthdate biorhythm theory on flight p 127 N93-19710

ACCIDENT PRONENESS

Accident proneness: A research review

p 288 N93-28622 DOT/FAA/AM-93/9] ACCIDENTS

Potential health risks from postulated accidents involving the Pu-238 RTG on the Ulysses solar exploration mission p 43 A93-13774 Mortality experience of cockpit crewmembers from p 385 A93-52306 Japan Airlines Upper interior head protection. Volume 2: Fleet

characterization and countermeasure evaluation p 195 N93-21795 [PB93-113777]

ACCURACY Incorporating display limitations in a model-based

analysis of flight simulator fidelity [AIAA PAPER 93-0859] p 137 A93-24923 Determinants of performance rating accuracy: A field study

[AD-A264726] p 342 N93-30575

ACETONITRILE On the reaction of 2-aminopropionitrile in aqueous

p 354 A93-43791 media

A modified method for investigating gastric secretion p 359 A93-45692 in aviation medical examination ACIDOSIS

Metabolic factors influencing myocardial recovery from acidosis (CiC3) p 14 N93-10796 [AD-A252376]

ACOUSTIC ATTENUATION SUBJECT INDEX

p 95 N93-16041

p 334 N93-29820

p 203 A93-33028

p 121 N93-18209

p 246 N93-26077

p 320 N93-28870

p 244 N93-25195

p 50 N93-12905

p 330 N93-30665

p 121 N93-18217

p 244 N93-25195

p 265 N93-25617

p 310 N93-27101

p 49 A93-17440

p 90 A93-18406

p 222 A93-30277

p 212 A93-30283

p 213 A93-30285

p 268 A93-36556

p 295 A93-41371

p 307 A93-41517

p 347 A93-42151

p 400 A93-54306

p 65 N93-13692

p 121 N93-18217

p 255 N93-26068

p 329 N93-29702

p 330 N93-29703

Ecosystems on Earth and in space (the possible

utilization of artificial ecosystems for space life support systems) p 236 N93-24406

The role of pyridoxine as a countermeasure for in-flight

Final results of space exposed experiment developed

Continued results of the seeds in space experiment

loss of lean body mass

for students

ACOUSTIC ATTENUATION Centrifuges - Their development and use in gravitational Enhancement of drug detection and identification by use Sound attenuation characteristics of the standard p 376 A93-49210 of various derivatizing reagents on GC-FTIR analysis biology DH-132A and SPH-4 helmets worn in combination with [AD-A255582] Functional adaptation of different rat skeletal muscles standard issue earplugs Beta-adrenergic blockade and lactate metabolism during p 377 A93-49575 to weightlessness IAD-A2630111 p 350 N93-29406 exercise at high altitude Alternating prism exposure causes dual adaptation and ACOUSTIC MEASUREMENT IAD-A2635441 generalization to a novel displacement Measuring hearing protection device performance using ADRENOCORTICOTROPIN (ACTH) p 388 A93-51959 the metrosonics db-3100 sound level analyzer Relationship between pituitary ACTH content and Adaptation to the simulated stimulus rearrangement of (dosimeter) hypothalamic catecholamines in the rat p 403 A93-55942 weightlessness LAD-A2608521 p 265 N93-25787 Adaptation to nauseogenic motion stimuli and its **ACOUSTIC PROPERTIES AEROBES** application in the treatment of airsickness G-load effects and efficient acoustic parameters for Muscle glycogen, fiber type, aerobic fitness, and anaerobic capacity of West Coast US Navy Sea-Air-Land p 404 A93-55947 robust speaker recognition p 146 N93-19775 Bone loss and human adaptation to lunar gravity ACQUIRED IMMUNODEFICIENCY SYNDROME personnel (SEALs) p 51 N93-14002 HIV infection in the nineties p 15 N93-11290 IAD-A2583641 AIDS/HIV in the US Military p 16 N93-11291 Utilization of the graded universal testing system to Adaptation to transient postural perturbations p 105 N93-16699 HIV variability and perspectives of a vaccine INASA-CR-1909591 increase the efficiency for assessing aerobic and anaerobic p 16 N93-11294 Eye-head-arm coordination and spinal reflexes in canacity AERODYNAMIC STALLING Analysis of disease progression from clinical p 236 N93-24362 weightlessness observations of US Air Force active duty members infected Requirements for pilot assistance in a thrust-vectoring The use of electrophysiological and cognitive variables with the Human Immunodeliciency Virus: Distribution of in the assessment of degradation during periods of combat aircraft AIDS survival time from interval censored observations AERODYNAMICS sustained wakefulness Digest of Russian Space Life Sciences, issue 33 [NASA-CR-3922(39)] p 244 N93-2 p 17 N93-11297 IAD-A2630331 p 283 N93-27923 Rapid susceptibility testing of mycobacterium avium complex and mycobacterium tuberculosis isolated from Specification of adaptive aiding systems **AEROEMBOLISM** [AD-A263071] p 314 N93-27927 AIDS natients Complement proteins and decompression sickness Beta-adrenergic blockade and lactate metabolism during [NASA-CR-192382] p 172 N93-20736 susceptibility exercise at high altitude **ACTIVATION** IAD-A2635441 p 334 N93-29820 Photobiological investigations AEROSOLS on spores ADAPTIVE CONTROL straptomyces griseus Marine microbial production of dimethylsulfide from Joint-space Lyapunov-based direct adaptive control of dissolved dimethylsulfoniopropionate p 277 N93-29274 a kinematically redundant telerobot manipulator **ACTIVATION ENERGY** INASA-CR-1932781 p 407 A93-53038 AEROSPACE ENGINEERING Roles of water molecules in bacteria and viruses Adaptive automation and human performance, 3: Effects p 243 A93-36555 Aviation medicine research: A historical review of practice on the benefits and costs of automation [AD-A2581981 **ACTIVE CONTROL** shifts Digest of Russian Space Life Sciences, issue 33 Active control versus passive observation in a simulated [AD-A254381] p 64 N93-12860 [NASA-CR-3922(39)] p 179 A93-27196 A systems approach to the advanced aircraft Active vibration damping of the Space Shuttle remote Space life support technology applications to terrestrial p 146 N93-19776 man-machine interface environmental problems manipulator system p 231 A93-31993 Human-in-the-loop evaluation of RMS Active Damping Adaptive autonomous target cuer p 148 N93-19784 1991 NASA Life Support Systems Analysis workshop NASA-CR-4466 p 310 N93-27100 INASA-CR-44661 Augmentation ADAPTIVE FILTERS p 393 A93-51460 1992 NASA Life Support Systems Analysis workshop I AIAA PAPER 93-38751 Adaptive filters for monitoring localized brain activity from Intelligent fault management for the Space Station active surface potential time series INASA-CR-44671 **AEROSPACE ENVIRONMENTS** thermal control system p 32 N93-11930 [DE93-003795] p 217 N93-22774 Hematological changes in space microgravity nvironments p 46 A93-15528 Human stress - Measurement and consequences Perception/action: An hotistic approach ADENOSINE TRIPHOSPHATE IAD-A2595971 p 235 N93-24067 environments Structure of a molecular chaperone from a thermophilic Computerized atmospheric trace contaminant control p 151 A93-25821 archaebacterium simulation for manned spacecraft Comparison of membrane ATPases from extreme INASA-TM-1084091 p 321 N93-28977 K.F. Tsiolkovsky and biomedical problems connected halophiles isolated from ancient salt deposits Vibration isolation with space exploration; Lectures Devoted to K.E. p 365 N93-31458 p 243 A93-36557 ACTIVITY (BIOLOGY) Effect of hindlimb unweighting on single soleus fiber Tsiolkovsky's Ideas, 25th, Kaluga, Russia, Sept. 11-14, Prolactin-induced mitogenesis of lymphocytes from maximal shortening velocity and ATPase activity 1990. Transactions K.E. Tsiolkovsky on the problem of human survival in ovariectomized rats p 329 A93-44934 p 377 A93-49294 Bright light delivery system extreme environments (On the earth and in space) p 77 A93-18407 Rapid susceptibility testing of mycobacterium avium [NASA-CASE-MFS-28723-1] p 96 N93-17058 complex and mycobacterium tuberculosis isolated from Evaluating robot procedures and tasks for the flight lerobotic servicer p 187 A93-27156 13 C NMR spectra of allosteric effectors of AIDS patients hemoglobin | NASA-CR-192382 | p 172 N93-20736 telerobotic servicer Multicultural factors in the space environment - Results p 284 N93-28293 [AD-A262979] ADENOSINES ACTIVITY CYCLES (BIOLOGY) of an international shuttle crew debrief Oligomerization reactions of ribonucleotides - The Scenarios for optimizing potato productivity in a lunar reaction of the 5'-phosphorimidazolide of adenosine with p 67 N93-13997 Treatment efficacy of intramuscular promethazine for diadenosine pyrophosphate on montmorillonite and other **ACTUATORS** Space Motion Sickness minerals Design, construction, and control of a two Limitations to the study of man in space in the U.S. ADHESION degree-of-freedom electric direct-drive human power Biofilm ecology of bioluminescent bacteria Responses of Bacillus subtilis spores to space p 65 N93-13486 IAD-A2552821 p 42 N93-14532 mpliller
Primary events in olfactory reception environment - Results from experiments in space ADIPOSE TISSUES | AD-A260562 | p 255 N93-25944 Protein absorption and energy digestibility at high Labels and visual cues to reproduce an earthlike ACUITY environment in space - Going ahead in designing Columbus Interpupillary and vertex distance effects on field-of-view A prospective evaluation of stress fractures/overuse and acuity with ANVIS injuries in a population of West Point cadets APM interior architecture [SAE PAPER 921193] p 13 N93-10709 [AD-A252427] [AD-A261259] p 268 N93-26265 NASA Specialized Center for Research and Training ADAPTATION Monitoring human tissues for toxic substances p 173 N93-21498 Behavioral adaptation to sustained hypobaric hypoxia (NSCORT) in space environmental health [PB92-223239] [SAE PAPER 921358] manifested by timing behavior in rats. I ADJUSTING p 37 A93-15526 CATS EYES adjustment procedures Space habitat environmental health - A systems issue p 353 N93-29924 Changes of REG during 4h head-down bed-rest IAD-A2640691 p 46 A93-16075 Meeting human needs ADRENAL GLAND IAAS PAPER 91-3131 hemodynamics Seasonal effects on human physiological adaptation Investigation sympatheticoadrenal system activity in air traffic controllers Suited for spacewalking: A teacher's guide with factors, thermotolerance and plasma fibronectin p 247 A93-35209 p 47 A93-16157 during their work activities Endocrinology of space/motion sickness [NASA-EP-279] Cardiovascular problems during space flight p 403 A93-55935 p 213 A93-30445 Occupational ergonomics in space p 68 N93-14013 ADRENAL METABOLISM Aviation medicine research: A historical review Adaptation of young pilots to new conditions of their The effect of the activation of the sympatho-adrenal [AD-A258198] work (Social-psychological aspects) p 256 A93-35220 system on catecholamine inactivation in rat lungs Dynamics of the central and peripheral circulation of Radiological assessment for Space Station Freedom p 2 A93-12864 [NASA-TM-104758] p 128 N93-20303 active rats on the first day of antiorthostatic hypokinesia Reaction characteristics of several neuroregulating

systems of cosmonauts after a 366-day-long space flight p 45 A93-15167

Hypoxia-induced downregulation of beta-adrenergic

Response of adrenergic receptors to 10 days head-down to bedrest p 162 A93-28679

Xylazine emesis, yohimbine and motion sickness

receptors in rat heart

tilt bedrest

p 37 A93-14973

p 324 A93-42450

(The role of training)

to rapid time zone changes

characteristics

p 242 A93-35261

p 242 A93-35264

p 278 A93-39714

from p 252 A93-36724

Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change

Structural and cytochemical signs of the development

The prediction of the adaptation of circadian rhythms

deadaptation as determined

NE

SUBJECT INDEX		AEROSPACE MEDICINE
Protein requirements in hypoxia or hypokinesia	A systems approach to water recovery testing for space	A study of illness related lost time in transport aircraft
p 368 N93-32244 AEROSPACE INDUSTRY	life support - Initial biomedical results from the ECLSS Water Recovery Test and plans for testbed utilization	crewmembers [AD-A258193] p 132 N93-18298
Manned Space-Laboratories Control Centre (MSCC)	SAE PAPER 921210 p 295 A93-41386	[AD-A258193] p 132 N93-18298 Validity of clinical color vision tests for air traffic control
training p 339 A93-43330	Crew Health Care Systems installations for Space	specialists
Human Factors Issues in Aircraft Maintenance and	Station Freedom	[AD-A258219] p 123 N93-18301
Inspection. Science, technology, and management: A	[SAE PAPER 921249] p 298 A93-41420	The Proceedings of the Hypobaric Decompression
program review [PB93-146975] p 234 N93-23647	NASA Specialized Center for Research and Training	Sickness Workshop
PB93-146975 p 234 N93-23647 AEROSPACE MEDICINE	(NSCORT) in space environmental health [SAE PAPER 921358] p 307 A93-41517	[AD-A257612] p 123 N93-18362
Spatial disorientation and dysfunction of	Medical care on the moon p 331 A93-42126	Space radiation health program plan
orientation/equilibrium reflexes - Aeromedical evaluation	Comparison of treatment strategies for space motion	[NASA-TM-108036] p 123 N93-18375 Publications of the Space Physiology and
and considerations p 8 A93-10336	sickness p 386 A93-52402	Countermeasures Program, Cardiopulmonary Discipline:
The space life sciences strategy for the 21st century	Medical concerns for exploration-class missions p 386 A93-52409	1980-1990
p 1 A93-10636 Operational medicine on the lunar base	Meeting human needs	[NASA-CR-4475] p 123 N93-18376
p 48 A93-17430	[AAS PAPER 91-313] p 400 A93-54306	Role of orientation reference selection in motion
Frontier Symposium on Clinical Pharmacology in Space,	Remote medical systems for the human exploration of	sickness [NASA-CR-191912] p 124 N93-18596
10th, Houston, TX, May 10, 11, 1990, Proceedings	space AAS PAPER 91-321 p 401 A93-54309	Cardiopulmonary discipline science plan
p 83 A93-17527 First intramuscular administration in the U.S. space	Review of the space medico-engineering research in	[NASA-TM-108040] p 125 N93-19648
program of motion sickness drugs p 84 A93-17534	China	An improved anthropometric test device
Pharmacodynamic aspects of spaceflight	[AAS PAPER 91-623] p 402 A93-55802	p 143 N93-19670
p 73 A93-17541	NASA's manned space flight program	27 years armed forces aerospace pathology and
Space medicine - Answering the challenge p 87 A93-17552	JAAS PAPER 91-626 j p 402 A93-55805 Aerospace medicine and biology: A continuing	toxicology in the Federal Republic of Germany: Development, current status, trends and challenges
Ethical concerns in the practice of military aviation	bibliography with indexes (supplement 365)	p 126 N93-19696
medicine p 89 A93-18045	[NASA-SP-7011(365)] p 12 N93-10075	Significance of histological postmortem findings in pilots
Approaches to solving the problem of decompression	Aerospace medicine and biology: A continuing	killed in military and civil aircraft accidents in Germany
safety of cosmonauts on their flights to Mars p 90 A93-18410	bibliography with indexes (supplement 360) [NASA-SP-7011(360)] p 12 N93-10076	(West): A 25-year-review p 126 N93-19697
Biomedical engineering and space	Aerospace medicine and biology: A continuing	Medical evaluation of spatial disorientation mishaps
p 103 A93-20015	bibliography with indexes (supplement 364)	p 134 N93-19703 Neuroscience discipline science plan
Animal surgery in microgravity p 112 A93-24047	[NASA-SP-7011(364)] p 12 N93-10077	[NASA-TM-108041] p 128 N93-19882
Formation of the hypokinetic syndrome in the digestive system under conditions of weightlessness	Aerospace medicine and biology: A continuing bibliography with indexes (supplement 366)	Regulatory physiology discipline science plan
p 119 A93-25600	[NASA-SP-7011(366)] p 12 N93-10079	[NASA-TM-108038] p 115 N93-19891
The role of rheoencephalography in the practice of	Aerospace medicine and biology: A continuing	Musculoskeletal discipline science plan
aviation medicine p 160 A93-27649	bibliography with indexes (supplement 367)	[NASA-TM-108039] p 128 N93-19892
Flight physiology - Clinical considerations	[NASA-SP-7011(367)] p 12 N93-10080 DoD space radiation concerns	Effect of aerobic capacity on Lower Body Negative Pressure (LBNP) tolerance in females
p 164 A93-28690 A physician's workstation designed for NASA and	[AD-A253135] p 13 N93-10613	[NASA-TP-3298] p 128 N93-20318
earth-based applications p 189 A93-28695	Allergic, Immunological and Infectious Disease Problems	Physiological responses to wearing the space shuttle
Civil aviation and cardiology - Admission rules and	in Aerospace Medicine	launch and entry suit and the prototype advanced crew
follow-up of the technical flying personnel of TAP-Air Portugal p 164 A93-28699	[AGARD-CP-518] p 14 N93-11283 Space flight and immune system p 14 N93-11284	escape suit compared to the unsuited condition
Portugal p 164 A93-28699 Cases from the aerospace medicine resident's teaching	Relating cognitive function to military aviator	[NASA-TP-3297] p 149 N93-20319 Aerospace medicine and biology: A cumulative index
file: Case No.51 - Hypercholesterolemia and heme positive	performance in early HIV infection p 17 N93-11298	to a continuing bibliography (supplement 371)
stools in a 69-year-old aviator (clinical conference)	Epidemiologic view of allergic diseases in North America:	[NASA-SP-7011(371)] p 172 N93-20889
p 165 A93-28702	Implications for aerospace medicine p 20 N93-11311 In vivo and in vitro diagnosis of allergic respiratory	Aerospace medicine and biology: A continuing
Rated performance, cardiovascular and quantitative EEG parameters during simulated instrument flight under	disease during screening procedures in the Italian Navy:	bibliography with indexes (supplement 372) [NASA-SP-7011(372)] p 172 N93-21044
the effect of terfenadine p 165 A93-28708	Comparative evaluation of a recent quantitative	Guide for aviation medical examiners
Living and working in space - Evolution of nursing in a	automatized enzyme immunoassay method to dose	[PB92-219690] p 172 N93-21047
new environment p 166 A93-28710 Health services at the Kennedy Space Center	specific IgE p 21 N93-11314 Asthma in aircrew: Assessment, treatment and	Environmental health discipline science plan
p 154 A93-28711	disposition p 21 N93-11315	[NASA-TM-108042] p 173 N93-21369 Space human factors discipline science plan
Emergency medical operations at Kennedy Space	Allergy screening and follow-up in student pilots of the	[NASA-TM-108023] p 194 N93-21370
Center in support of space shuttle p 166 A93-28712	Belgian Air Force (BAF) p 21 N93-11316	Life sciences utilization of Space Station Freedom
Kennedy Space Center environmental health program p 166 A93-28713	Allergic and nonallergic rhinitis in Greek pilots p 21 N93-11317	p 205 N93-22622
Environmental monitoring and research at the John F.	Assessment of programs in space biology and	Life sciences recruitment objectives p 205 N93-22623
Kennedy Space Center p 154 A93-28714	medicine	Biomedical Monitoring and Countermeasures Facility
Challenges of space medical operations and life	[NASA-CR-190930] p 41 N93-13327 A health care system for the Space Station	p 205 N93-22624
sciences management p 155 A93-28716 Aging, expertise, and narrative processing	NASA-TM-108093 p 65 N93-13571	Crew health p 217 N93-22630 Bibliography of the Biosciences Division: 1986 to
p 180 A93-28724	Test and evaluation report of the Physio Control	present
In vivo testing confirms a blunting of the human	Defibrillator/Monitor, Model LifePak(tm) 6s	[DCIEM-92-20] p 209 N93-23343
cell-mediated immune mechanism during space flight	[AD-A255691] p 52 N93-14103 Aerospace medicine and biology: A continuing	Two techniques for measuring locomotion impact forces
p 167 A93-28732 Aseptic technique in microgravity p 168 A93-28737	bibliography with indexes (supplement 368)	during zero G [NASA-TP-3305] p 217 N93-23410
Cases from the aerospace medicine residents' teaching	[NASA-SP-7011(368)] p 53 N93-14603	Tobacco and health of the pilot
file: Case No.52 - A flyer with syncope (clinical	Aerospace medicine and biology: A continuing	[ETN-93-93693] p 217 N93-23414
conference) p 168 A93-28740	bibliography with indexes (supplement 369) [NASA-SP-7011(369)] p 53 N93-14731	Human Factors Issues in Aircraft Maintenance and
Electroencephalogram epileptiform abnormalities in candidates for aircrew training p 170 A93-28757	Publications of the Space Physiology and	Inspection. Science, technology, and management: A program review
Working hours and fatigue of Japanese flight attendants	Countermeasures Program, Neuroscience Discipline:	[PB93-146975] p 234 N93-23647
(FA) p 171 A93-28762	1980-1990	Survey of aviation medical examiners: Information and
Hypertension and the probability of an incapacitating	[NASA-CR-4476] p 55 N93-15583	attitudes about the pre-employment and pre-appointment
event over a defined period - Impact of treatment p 215 A93-32777	Night vision manual for the flight surgeon IAD-A2570591 p 104 N93-15710	drug testing program [DOT/FAA/AM-92/15] p 218 N93-24088
Cardiac pacing and aviation p 215 A93-32778	[AD-A257059] p 104 N93-15710 Operational use of contact lenses by military aircrew	Selection of astronauts for European space missions
Unconsciousness in flight and its prevention	[AGARD-AG-334] p 95 N93-15824	p 225 N93-24345
p 217 A93-32787	Adaptation to transient postural perturbations	Physiological experiments within the project AustroMir
Data bank establishment principles as applied to the problem of physiological norms in space medicine	[NASA-CR-190959] p 105 N93-16699	p 219 N93-24354 Telescience testbedding for physiological experiments
p 249 A93-35234	Possible biomedical applications and limitations of a	under hypobaric hypoxic conditions p 220 N93-24398
Bibliographic guide to publications in aerospace	variable-force centrifuge on the lunar surface: A research tool and an enabling resource p 83 N93-17458	An automated method for determining mass properties
medicine and related topics p 252 A93-35500	Aerospace medicine and biology: A continuing	[AD-A259924] p 236 N93-24441
New aspects of using hyperbaric oxygenation in aviation medicine p 252 A93-36742	bibliography with indexes (supplement 370)	Digest of Russian Space Life Sciences, issue 33 [NASA-CR-3922(39)] p 244 N93-25195
Occupational health problems in aviation medicine	[NASA-SP-7011(370)] p 121 N93-18108	The prevalence of artificial lens implants in the civil
ρ 252 A93-36743	Aviation medicine research: A historical review	airman population
Hyperbaric treatment operations aboard Space Station	[AD-A258198] p 121 N93-18217	[DOT/FAA/AM-92/14] p 253 N93-25214
Freedom SAE PAPER 921142 p 292 A93-41328	A computer-based visual analog scale [AD-A258152] p 122 N93-18280	Space biology research development [NASA-CR-192830] p 244 N93-25242
, page 11020	,	

AEROSPACE SAFETY		SUBJECT INDEX
JPRS report: Science and technology. Central Eurasia:	AEROSPACE TECHNOLOGY TRANSFER	AIR FILTERS
Life sciences	Human Factors Issues in Aircraft Maintenance and	Design of a Shuttle air and water prefilter for reduced
[JPRS-ULS-92-022] p 253 N93-25407	Inspection. Science, technology, and management: A	gravity operation
The application of integrated knowledge-based systems	program review	[SAE PAPER 921161] p 294 A93-41343
for the Biomedical Risk Assessment Intelligent Network	[PB93-146975] p 234 N93-23647	Microbiological analysis of debris from STS-42 IML-1
(BRAIN) p 258 N93-25595	AFFERENT NERVOUS SYSTEMS	by direct plating of rinse waters
Simulated sustained flight operations and performance. Part 1: Effects of fatique	Vestibular afferent responses to microrotational stimuli	[NASA-TM-108375] p 6 N93-12174 Evaluation and optimization of a flexible filtration system
[AD-A261012] p 266 N93-25859	p 328 A93-44930	for respiratory protection system 21
The use of extended wear contact lenses in the aviation	Hair cell tufts and afferent innervation of the bullfrog crista ampullaris p 329 A93-44931	[AD-A262467] p 284 N93-28758
environment: An Army-wide study	The central nervous connections involved in motion	AIR FLOW
[AD-A260938] p 255 N93-26218	induced emesis p 399 A93-55931	Tests characterizing bioprocessor hardware for
Space Station Freedom biomedical monitoring and	AGE FACTOR	analytical modeling
countermeasures: Biomedical facility hardware catalog NASA-CR-193156 p 246 N93-26700	Aging, expertise, and narrative processing	
Aerospace medicine and biology: A continuing	p 180 A93-28724	Methane transport mechanisms and isotopic
bibliography with indexes (supplement 373)	Age, circadian rhythms, and sleep loss in flight crews	fractionation in emergent macrophytes of an Alaskan
[NASA-SP-7011(373)] p 256 N93-26945	p 211 A93-30276	tundra lake .p 38 A93-16544
Index of international publications in aerospace	Dual-task training strategies and aging	AIR LOCKS
medicine [AD-A262908] p 284 N93-28306	AD-A258261 p 131 N93-18027	Hyperbaric treatment operations aboard Space Station
ACQuisition of physiological data during G-induced Loss	A linear, time-varying simulation of the respiratory tract system	Freedom SAE PAPER 921142 p 292 A93-41328
of Consciousness (G-LOC)	[DE93-004515] p 218 N93-24009	AIR NAVIGATION
[AD-A264492] p 335 N93-30400	Age 60 Project: Consolidated database experiments	Methodology for ergonomic tests of the information
Aerospace medicine and biology: A continuing	[HS-TR-8025-3C(R2)] p 314 N93-27851	display on monitor indicators p 101 A93-18530
bibliography with indexes (supplement 377) [NASA-SP-7011(377)] p 361 N93-31924	AGING (BIOLOGY)	Ergonomic aspects of the presentation of
[NASA-SP-7011(377)] p 361 N93-31924 Nutrition, Metabolic Disorders and Lifestyle of Aircrew	Myosin heavy chain composition in the rat diaphragm - Effect of age and exercise training p 37 A93-14970	piloting-navigation information p 101 A93-18531 Electronic map interpretation in a dual-task context
[AGARD-CP-533] p 367 N93-32240	Effect of age and exercise training p 37 A93-14970 A reappraisal of aging and pilot performance	p 176 A93-27144
Portable equipment developed to estimate energy	p 56 A93-15663	AIR POLLUTION
expenditure by simultaneous recording of heart rate and	Conference on Correlations of Aging and Space Effects	Chemical and toxicological assessment of
body position p 368 N93-32243	on Biosystems, Oct. 30-Nov. 1, 1989, Proceedings	environmental contaminants in the Lunar-Chemical
Protein requirements in hypoxia or hypokinesia	Book p 79 A93-20651	Analysis Laboratory p 62 A93-17433
p 368 N93-32244 Idiopathic Reactive Hypoglycemia in a population of	Posture and the circulation - The age effect	Effects of possible pollution sources of the atmosphere of a closed ecosystem on the growth of test
healthy trainees of an Italian Air Force military school	p 93 A93-20653 Age-related bone changes p 93 A93-20655	microorganisms p 101 A93-18418
p 368 N93-32248	Can the adult skeleton recover lost bone?	Space Shuttle crew compartment
Lipidemic profile of Hellenic Airforce officers	p 93 A93-20656	debris-contamination
p 362 N93-32250	The mechanical control system of bone in weightless	[SAE PAPER 921345] p 305 A93-41504
Cardiovascular Risk Factors (CVRF) in Spanish pilots	spaceflight and in aging p 94 A93-20657	AIR PURIFICATION
with coronary artery disease demonstrated by angiographic studies p 362 N93-32253	Research on sleep, circadian rhythms and aging - Applications to manned spaceflight p 94 A93-20658	Space Shuttle crew compartment debris-contamination
Results and management of pathological lipoprotein	Applications to manned spaceflight p 94 A93-20658 Sleep and circadian rhythms p 94 A93-20659	[SAE PAPER 921345] p 305 A93-41504
concentrations and other cardiovascular risk factors in	Altered cell function in microgravity	Shuttle Orbiter Environmental Control and Life Support
military pilots of the German Federal Armed Forces	p 79 A93-20660	System - Flight experience
p 363 N93-32254	The pituitary - Aging and spaceflown rats	SAE PAPER 921348 p 305 A93-41507
The influence of dietary counseling and cardiac catheterization on lipid profiles in American military	p 79 A93-20661	Air Handling and Atmosphere Conditioning systems for manned spacecraft - A design and performance data
aviators p 369 N93-32259	Heterogeneity of changes in lymphoproliferative ability with increasing age p 79 A93-20662	survey
Changes in some lifestyle parametres in Norwegian	Cellular immunosenescence - An overview	[SAE PAPER 921350] p 306 A93-41509
pilots as students, and after 6 and 12 years of service	p 80 A93-20663	Modeling of membrane processes for air revitalization
p 370 N93-32261	Caenorhabditis elegans - A model system for space	and water recovery
Survey of smoking habits in the Spanish Air Force p 370 N93-32262	biology studies p 80 A93-20665	[SAE PAPER 921352] p 306 A93-41511 Utilization of on-site resources for Regenerative Life
Health maintenance facility system effectiveness	Cardiovascular responses to lower body negative pressure in trained and untrained older men	Support Systems at a lunar outpost p 346 A93-42124
testing	p 115 A93-21686	Regenerative life support technology challenges for the
[NASA-TM-104737] p 372 N93-32328	An analytical study of the effects of age and experience	Space Exploration Initiative p 346 A93-42128
Torsional vestibulo-ocular reflex measurements for	on flight safety p 176 A93-27158	Lunar base CELSS: A bioregenerative approach p 67 N93-13993
identifying otolith asymmetries possibly related to space	Aging, expertise, and narrative processing	Zero-G life support for Space Station Freedom
motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364	p 180 A93-28724 Age and length of service of flight personnel in the case	p 233 N93-22640
AEROSPACE SAFETY	of chronic diseases p 248 A93-35227	Integrated oxygen recovery system
Beryllium toxicity - An update p 104 A93-20779	Age-related changes in hemoglobin and erythrocyte	[NASA-CR-192343] p 234 N93-22663
Meeting human needs	tevels p 250 A93-35250	Integrated oxygen recovery system
[AAS PAPER 91-313] p 400 A93-54306	Influence of aging and practice on piloting tasks p 286 A93-39708	[NASA-CR-192982] p 267 N93-26088 Manned lunar surface site p 316 N93-28033
Occupational ergonomics in space p 68 N93-14013	Relationship between alcohol drinking habit and blood	AIR QUALITY
Human safety in the lunar environment	pressure changes during the period of 25 years on JASDF	Microbiology operations and facilities aboard
p 105 N93-16867	aged pilots p 333 A93-45321	restructured Space Station Freedom
Automation of closed environments in space for human comfort and safety	AFRRI reports	[SAE PAPER 921213] p 296 A93-41389
[NASA-CR-192045] p 138 N93-17971	[AD-A254581] p 49 N93-12649	First entry operations for spacecraft JSAE PAPER 921384 p 308 A93-41542
Design of a reusable kinetic energy absorber for an	AGITATION Response of a mouse hybridoma cell line to heat shock,	Survey of protocols for conducting indoor air quality
astronaut safety tether to be used during extravehicular	agitation, and sparging p 328 A93-44928	investigations in large buildings
activities on the Space Station	AGRICULTURE	[PB93-119865] p 194 N93-21215
[NASA-CR-192015] p 139 N93-17973	Active synthetic soil	Space life support technology applications to terrestrial
EVA and telerobot interaction p 312 N93-27792	[NASA-CASE-MSC-21954-1-NP] p 114 N93-19054	environmental problems p 265 N93-25617
AEROSPACE SCIENCES	AH-64 HELICOPTER	Membrane technology: A search for membranes for submarine atmosphere control
Space life sciences overview p 158 N93-21074	Operator workload predictions for the revised AH-64A workload prediction model, volume 1	[AD-A260581] p 266 N93-25904
AEROSPACE SYSTEMS Space based robot manipulators - Dynamics of contact	[AD-A254198] p 30 N93-10261	AIR TO AIR MISSILES
and trajectory planning for impact minimization	Operator workload predictions for the revised AH-64A	Predictive nosepointing and flightpath displays for
p 135 A93-22827	workload prediction model. Volume 2: Appendixes A	air-to-air combat p 229 A93-30071
Cooperative intelligent robotics in space II; Proceedings	through H	Pilot decision aiding for weapon delivery: A novel approach to fire control cueing using parallel computing
of the Meeting, Boston, MA, Nov. 12-14, 1991	AD-A254939 p 63 N93-12545 AIR	approach to tire control cueing using parallel computing p 317 N93-28853
[SPIE-1612] p 182 A93-27001	The production and use of aeroponically grown inocula	AIR TRAFFIC
Characteristics and requirements of robotic manipulators	of VAM fungi in the native plant nursery	High-speed civil transport - Advanced flight deck
for space operations p 182 A93-27003	[PB92-204973] p 43 N93-15208	challenges
Vision navigator for free-flying robots p 183 A93-27025	AIR CONDITIONING EQUIPMENT	[AIAA PAPER 92-4231] p 28 A93-13357
Space Station ECLSS integration analysis	Manned lunar surface site p 316 N93-28033 Lightweight passive microclimate cooling device	AIR TRAFFIC CONTROL Advanced civil airliner cockpit research at RAE
[NASA-CR-192470] p 195 N93-22002	[AD-A262262] p 317 N93-28112	Bedford p 29 A93-13416
A vision system planner for increasing the autonomy	AIR DEFENSE	Air Traffic Control facility lighting p 188 A93-27167
of the Extravehicular Activity Helper/Retriever	Requirements for pilot assistance in a thrust-vectoring	Performance consequences of automation-induced
[NASA-CR-193301] p 365 N93-31844	combat aircraft p 320 N93-28870	'complacency' p 286 A93-39571

AIRCRAFT MAINTENANCE

SUBJECT INDEX A new test of scanning and monitoring ability: Methods AIRCRAFT CONFIGURATIONS Gremlins: A dozen hazardous thought and hebayion and initial results patterns as risk factors p 134 N93-19709 Evaluation of Night Vision Goggles (NVG) for maritime p 24 N93-10321 LAD-A2491231 AIRCRAFT ACCIDENTS search and rescue Human factors in the 'glass cockpit' p 107 N93-17697 Validity of clinical color vision tests for air traffic control IAD-A2577041 p 27 A93-11202 AIRCRAFT CONTROL specialists Army cockpit delethalization program [AD-A258219] Training for avionics evaluation | AIAA PAPER 92-4068 | p 24 A93-11254 A longitudinal examination of applicants to the air traffic p 61 A93-15419 The effects of structural failure on injuries sustained in control supervisory identification and development A study of decision making and performance in rejected the M1 Boeing 737 disaster, January 1989 takeoffs p 257 N93-25213 p 118 A93-25201 [SAE PAPER 921134] [DOT/FAA/AM-92/16] p 287 A93-41322 Contribution of personality to the prediction of success The effects of brace position on injuries sustained in A procedure for estimating the variables of the working-condition space of a man-machine system for the in initial air traffic control specialist training the M1 Boeing 737/400 disaster, January 1989 p 364 A93-45685 p 118 A93-25202 control of a moving object IDOT/FAA/AM-93/41 p 259 N93-26138 AIR TRAFFIC CONTROLLERS (PERSONNEL) The influence of flight experience on midair collision risk Distribution of functions in a man-machine control p 180 A93-28707 Poststrike air traffic control trainees - Biodemographic perception system of a certain type p 364 A93 predictors of success in selection and screening What optical cues do pilots use to initiate the landing 'And we were tired' fatique and aircrew errors p 56 A93-15664
Psychophysiological stress research - Methodology and p 264 A93-37070 flare? Results of a piloted simulator experiment Analysis of injuries following the crash of Avianca Flight p 406 A93-52661 IAIAA PAPER 93-3561 I p 382 A93-49562

Fatal mishap report - First SPH-4B flight helmet results of an investigation involving air traffic controllers [ISBN-3-258-04585-2] p 97 A93-17971 52 Adaptive automation and human performance. 3: Effects of practice on the benefits and costs of automation A systems analysis to identify human factors issues and recovered from a U.S. Army helicopter mishap quirements for data link p 186 A93-27153 Air Traffic Control facility lighting p 188 A93-27167 p 393 A93-52308 requirements for data link LAD-A2543811 n 64 N93-12860 Principles for integrating voice I/O in a complex Mishap trends and cause factors in naval aviation - A Predicting individual differences in complex skill acquisition - Dynamics of ability determinants review of Naval Safety Center data, 1986-90 interface p 146 N93-19774 p 405 A93-55166 A systems approach to the advanced aircraft The identification and quantitation of triamterene in blood man-machine interface p 146 N93-19776 p 181 A93-28731 USAF/USN fixed wing night vision - The mission and urine from a fatal aircraft accident AIRCRAFT DESIGN IAD-A2545501 p 49 N93-12612 p 227 A93-30055 Training for avionics evaluation [AIAA PAPER 92-4068] Assessment of morale in Turkish Air Force pilots with Investigation of hemodynamics D-24 A93-11254 and sympatheticoadrenal system activity in air traffic controllers two clinical psychological tests p 133 N93-19660 High-speed civil transport - Advanced flight deck Occupant kinematics simulation of the Kegworth air during their work p 247 A93-35209 p 142 N93-19662 Some personality and aptitude characteristics of Air accident [AIAA PAPER 92-4231] p 28 A93-13357 Traffic Control Specialist trainees p 388 A93-52301 Can injury scoring techniques provide additional Industrial design influence on today's flight decks A new test of scanning and monitoring ability: Methods information for crash investigators? p 125 N93-19663 p 61 A93-14378 and initial results Is axial loading a primary mechanism of injury to the AIRCRAFT EQUIPMENT lower limb in an impact aircraft accident? LAD-A2491231 n 24 N93-10321 Contact lenses in aviation -The Marine Corps p 125 N93-19664 Validity of clinical color vision tests for air traffic control p 289 A93-41172 experience specialists Occupant simulation as an aspect of flight safety New technologies for in-flight pasteless bioelectrodes p 142 N93-19665 IAD-A2582191 p 289 A93-41174 p 123 N93-18301 research Stress resistance as a diagnostic category in air traffic Hybrid oxygen system Computer aided methods for simulating occupant controller selection p 317 N93-28464 response to impact using OASYS DYNA3D [AD-A262417] IDLR-FB-92-131 The design and development of the new RAF standard p 219 N93-24092 p 142 N93-19666 A longitudinal examination of applicants to the air traffic p 318 N93-28856 Design/development of an enhanced biodynamic control supervisory identification and development AIRCRAFT GUIDANCE manikin p 142 N93-19667 program results Head-steered sensor flight test p 142 N93-19668 Improving manikin biofidelity [DOT/FAA/AM-92/16] p 318 N93-28859 p 257 N93-25213 implications An improved anthropometric test device The air traffic controller's mental model and it's The quest for an integrated flying helmet p 143 N93-19670 implications for equipment design and trainee selection p 319 N93-28860 Epidemiology of United States Air Force spatial Human capabilities and limitations in situation wareness p 319 N93-28863 p 341 N93-30322 disorientation accidents: 1990-1991 p 133 N93-19679 AIR TRANSPORTATION awareness Otolithic illusions on takeoff and visual information: Hazard alerting and situational awareness in advanced AIRCRAFT HAZARDS p 61 A93-14377 air transport cockpits Reflections in connection with an air accident case Behavioral validation of a hazardous thought pattern p 134 N93-19681 Peripheral arterial thrombosis related to commercial p 176 A93-27142 instrument airline flights - Another manifestation of the economy class Cognitive factors in the air events of the Air Force during AIRCRAFT INDUSTRY syndrome p 134 N93-19682 p 215 A93-32775 Occupational dermatitis in the aircraft industry - 35 years the last decade Ab initio pilot training process more efficient than p 215 A93-32776 Fires on board aircraft: Toxicological risk in flight of progress p 387 A93-49276 Comparison of spinal health indicators in predicting traditional methods p 126 N93-19694 AIR WATER INTERACTIONS spinal status in a 1-year longitudinal study Toxicological investigations of flight accidetns: Findings p 216 A93-32786 Marine microbial production of dimethylsulfide from p 126 N93-19695 dissolved dimethylsulfoniopropionate AIRCRAFT INSTRUMENTS 27 years armed forces aerospace pathology and INASA-CR-193278] p 330 N93-30665 Human factors in the 'glass cockpit' toxicology in the Federal Republic of Germany: Development, current status, trends and challenges AIRCRAFT ACCIDENT INVESTIGATION p 27 A93-11202 Errors in aviation maintenance - Taxonomy and Head-up display standardization and the utility of analog p 126 N93-19696 p 175 A93-27135 vertical velocity information during instrument flight control Significance of histological postmortem findings in pilots Behavioral validation of a hazardous thought pattern p 189 A93-27451 killed in military and civil aircraft accidents in Germany instrument p 176 A93-27142 Instrument-approach-plate design considerations for p 126 N93-19697 (West): A 25-year-review Response to automated function failure cue - An p 289 A93-39574 displaying radio frequencies Aircraft accident injuries in the Hellenic Air Force in the operational measure of complacency Human factors design principles for instrument approach p 126 N93-19698 p 176 A93-27147 last 20 years procedure charts. Volume 1: Readability p 104 N93-15968 An analytical study of the effects of age and experience An epidemiological study in SAF's pilots ejections AD-A2572341 p 143 N93-19699 p 176 A93-27158 Equipment, more or less ready to be used in elicopters p 148 N93-19785 on flight safety Assessment of morale in Turkish Air Force pilots with The next generation female in cockpit: Do we need a helicopters The design and development of the new RAF standard two clinical psychological tests p 133 N93-19660 new approach to cockpit resource management (CRM)? p 143 N93-19704 Can injury scoring techniques provide additional information for crash investigators? p 125 N93-19663 UD format p 318 N93-28856 Cognitive interface considerations for intelligent HUD format Gremlins: A dozen hazardous thought and behavior Computer aided methods for simulating occupant p 319 N93-28865 p 134 N93-19709 patterns as risk factors AIRCRAFT LANDING response to impact using OASYS DYNA3D Effectiveness of birthdate biorhythm theory on flight p 142 N93-19666 Transfer effects of scene content and crosswind in p 127 N93-19710 p 62 A93-15665 Epidemiology of United States Air Force spatial landing instruction Variations in time-to-incapacitation and blood cynanide disorientation accidents: 1990-1991 p 133 N93-19679 What optical cues do pilots use to initiate the landing values for rats exposed to two hydrogen cyanide gas flare? Results of a piloted simulator experiment Otolithic illusions on takeoff and visual information: concentrations p 406 A93-52661 [AIAA PAPER 93-3561] p 406 A93-52661 Flight director information and pilot performance in Reflections in connection with an air accident case [DOT/FAA/AM-93/8] p 283 N93-27158 p 134 N93-19681 Age 60 Project: Consolidated database experiments Cognitive factors in the air events of the Air Force during instrument approaches (HS-TR-8025-3C(R2)) p 314 N93-27851 p 134 N93-19682 p 131 N93-17857 the last decade LAD-A2581861 An evaluation of B-1B pilot performance during simulated AIRCRAFT LIGHTS Toxicological investigations of flight accidetns: Findings instrument approaches with and without status and methods p 126 N93-19695 Validity of clinical color vision tests for air traffic control information 27 years armed forces aerospace pathology and specialists toxicology in the Federal Republic of Germany: IAD-A2638741 p 353 N93-29888 p 123 N93-18301 [AD-A258219] AIRCRAFT CARRIERS Development, current status, trends and challenges AIRCRAFT MAINTENANCE p 126 N93-19696 The effect of combat on aircrew subjective readiness Errors in aviation maintenance - Taxonomy and and LSO grades during Operation Desert Shield/Storm p 175 A93-27135 Significance of histological postmortem findings in pilots p 132 N93-18294 IAD-A2581561 killed in military and civil aircraft accidents in Germany Human Factors Issues in Aircraft Maintenance and p 126 N93-19697 AIRCRAFT COMPARTMENTS (West): A 25-year-review Inspection. Science, technology, and management: A Aircraft accident injuries in the Hellenic Air Force in the

On cockpit (crew) resource management

p 223 A93-31490

p 126 N93-19698

last 20 years

p 234 N93-23647

program review

PB93-1469751

AIRCRAFT MANEUVERS SUBJECT INDEX

Comparative evaluation of a monocular head mounted Relationship between alcohol drinking habit and blood Human visual limitations on suprathreshold contrast display device versus a flat screen display device in pressure changes during the period of 25 years on JASDF perception through ANVIS presenting aircraft maintenance technical data IAD-A2599701 n 226 N93-24431 aged pilots p 333 A93-45321 IAD-A2596841 p 234 N93-23660 Simulated sustained flight operations and performance. A computer simulation model for attention distribution Human Factors in Aviation Maintenance, phase 2 p 340 A93-45323 Part 1: Effects of fatigue and event generation IDOT/FAA/AM-93/51 p 267 N93-26089 p 266 N93-25859 [AD-A261012] The effects of history and predictive information on the AIRCRAFT MANEUVERS ability of the transport aircraft pilot to predict an alert The use of extended wear contact lenses in the aviation What optical cues do pilots use to initiate the landing environment: An Army-wide study p 365 A93-46810 flare? Results of a piloted simulator experiment | AD-A260938 | p 255 N93-26218 Determinants of | Gz-related neck pain - A preliminary | AIAA PAPER 93-3561| Age 60 Project: Consolidated database experiments p 406 A93-52661 p 380 A93-49227 p 314 N93-27851 The design and development of the new RAF standard [HS-TR-8025-3C(R2)] Back ache in helicopter pilots p 382 A93-49566 p 318 N93-28856 **HUD format** results Head-steered High level organizing principles for display of systems AIRCRAFT MODELS p 318 N93-28859 fault information for commercial flight crews implications Operator workload predictions for the revised AH-64A p 388 A93-52187 The quest for an integrated flying helmet p 319 N93-28860 workload prediction model. Volume 2: Appendixes A Degeneration of cervical intervertebral disks in fighter through H The physiological limitations of man in the high G pilots frequently exposed to high + Gz forces [AD-A254939] p 63 N93-12545 p 384 A93-52298 p 319 N93-28861 environment AIRCRAFT NOISE Field test of a computer-driven tool to measure The time-course of alcohol impairment of general The influence of military low-altitude flight noise on the aviation pilot performance in a Frasca 141 simulator psychological characteristics of aircrew inner ear of the guinea pig. I - Hearing threshold p 384 A93-52299 p 341 N93-30425 I AD-A264484 I measurements p 377 A93-49555 Abridged procedural guide to aircrew anthropometric Hypobaric hypoxia as a correction and rehabilitation The influence of military low-altitude flight noise on the accommodation assessment method in aviation medicine p 402 A93-55332 inner ear of the guinea pig. II - Scanning electron p 366 N93-32006 Dynamics of electroencephalographic indices during LAD-A2652201 micrographs p 377 A93-49556 Application and validation of workload assessment acute hypoxia p 402 A93-55333 **AIRCRAFT PILOTS** Operator workload predictions for the revised AH-64A The optimum design of personal liquid cooling system IAD-A2645751 p 366 N93-32012 workload prediction model, volume 1 p 60 A93-14314 p 30 N93-10261 Nutritional assessment of United States tactical air LAD-A2541981 p 367 N93-32242 Industrial design influence on today's flight decks function to Relating cognitive military command pilots aviator p 61 A93-14378 p 17 N93-11298 The lifestyle and dietary consumption patterns of United performance in early HIV infection of overall analysis States Air Force aviators within air training command at Study method The screening of inhalant allergic diseases in the n 61 A93-14413 man-machine-environment systems selection of candidates for aircraft piloting Randolph Air Force Base, Texas p 369 N93-32257 Pharmacological means of stimulating the work capacity The influence of dietary counseling and cardiac p 21 N93-11312 In vivo and in vitro diagnosis of allergic respiratory of flight personnel engaged in stressful activity catheterization on lipid profiles in American military n 45 A93-15173 p.369 N93-32259 disease during screening procedures in the Italian Navy: aviators The pigmentary dispersion disorder in USAF aviators Changes in some lifestyle parametres in Norwegian Comparative evaluation of a recent quantitative p 87 A93-18033 pilots as students, and after 6 and 12 years of service automatized enzyme immunoassay method to dose Myocardial infarction occurring at the conclusion of p 370 N93-32261 specific IgE p 21 N93-11314 centrifuge training in a 37-year-old aviator The effects of cockpit heat on aviator Allergy screening and follow-up in student pilots of the Belgian Air Force (BAF) p 21 N93-11316 p 89 A93-18044 p 371 N93-32266 parameters AIRCRAFT SAFETY Evaluation of the efficiency of the pilot's control activity Allergic and nonallergic rhinitis in Greek pilots in a flight simulator p 100 A93-1834 Safety concerns as a factor in pilot desire to change p 21 N93-11317 p 129 A93-24040 Safety concerns as a factor in pilot desire to change aircraft Selective factors affecting rotary wing aviator p 129 A93-24040 The effects of brace position on injuries sustained in performance with symbology superimposed on night vision Measuring performance decrements in aviation the M1 Boeing 737/400 disaster, January 1989 aogales p 118 A93-25202 personnel infected with the human immunodeficiency [AD-A254983] p 35 N93-12508 Mishap trends and cause factors in naval aviation - A p 130 A93-25209 Operator workload predictions for the revised AH-64A Up/down in (im)possible flight attitude indicators - Some review of Naval Safety Center data, 1986-90 workload prediction model. Volume 2: Appendixes A p 405 A93-55166 effects of colour, shape and pattern in 185 A93-27128 A systems analysis to identify human factors issues and An epidemiological study in SAF's pilots ejections i AD-A2549391 p 63 N93-12545 p 143 N93-19699 p 186 A93-27153 requirements for data link Human factors research in aircrew performance and An analytical study of the effects of age and experience Subjective fatigue in A-6, F-14, and F/A-18 aircrews training: 1986-1991 on flight safety p 176 A93-27158 during operations Desert Shield and Storm LAD-A2544551 p 63 N93-12609 p 171 N93-20580 Individual differences in airline captains' personalities [AD-A259243] Development of measures of crew coordination AIRDROPS [AD-A255384] p 70 N93-14651 communication strategies, and crew performance p 177 A93-27175 Relating flying hours to aircrew performance: Evidence Workshop on Aeronautical Decision Making (ADM). Comparing the Cattell 16PF profiles of male and female for attack and transport missions Volume 1: Executive summary commercial airline pilots p 178 A93-27177 [AD-A253988] p 25 N93-10719 [AD-A257016] p 99 N93-16189 AIRFRAMES Cases from the aerospace medicine resident's teaching Effects of tertenadine and diphenhydramine on brain file: Case No.51 - Hypercholesterolemia and heme positive Training for avionics evaluation [AIAA PAPER 92-4068] activity and performance in a UH-60 flight simulator stools in a 69-year-old aviator (clinical conference) p 24 A93-11254 p 119 N93-17817 LAD-A2580121 p 165 A93 28702 AIRLINE OPERATIONS The detection of lateral motion by US Navy jet pilots p 120 N93-17896 Individual differences in airline captains' personalities, Predicting increases in skin temperature using heat [AD-A258115] stress indices and relative humidity in helicopter pilots communication strategies, and crew performance The effect of combat on the work/rest schedules and p 167 A93-28729 p 177 A93-27175 fatigue of A-6 and F-14 aviators during Operation Desert Assessing pilot workload - Why measure heart rate, HRV Alcoholism and treatment in airline aviators - One Shield/Storm p 257 A93-35499 p 168 A93-28741 IAD-A2581461 p 122 N93-18292 company's results Flight crew sleep during multiple layover polar flights Quick-disconnect harness system for helmet-mounted The effect of combat on aircrew subjective readiness p 380 A93-49226 p 228 A93-30065 displays and LSO grades during Operation Desert Shield/Storm Advances in miniature projection CRTs for helmet [AD-A258156] p 132 N93-18294 Ab initio pilot training process more efficient than p 387 A93-49276 n 229 A93-30066 A study of illness related lost time in transport aircraft traditional methods Evaluation of conformal and body-axis attitude Control of infection in an international airline crewmembers p 229 A93-30070 information for spatial awareness IAD-A2581931 p 132 N93-18298 p 407 A93-52867 Retroperitoneal fibrosis as a cause of hypertension in Medical evaluation of spatial disorientation mishaps Workshop on Aeronautical Decision Making (ADM). p 212 an aviator - A case report p 134 N93-19703 Volume 1: Executive summary Adaptation of young pilots to new conditions of their The next generation female in cockpit: Do we need a [AD-A257016] p 99 N93-16189 work (Social-psychological aspects) p 256 A93-35220 new approach to cockpit resource management (CRM)? Human Factors Issues in Aircraft Maintenance and Control of the development of occupationally important p 143 N93-19704 Inspection. Science, technology, and management: A qualities with the aim of improving flight-personnel Modeling the dynamics of mental workload and human program review p 257 A93-35249 training performance in complex systems [PB93-146975] p 234 N93-23647 Age-related changes in hemoglobin and erythrocyte [AD-A258553] p 135 N93-19956 AIRPORT SECURITY p 250 A93-35250 Effects of microclimate cooling on physiology and Recognition of partially occluded threat objects using Psychosomatic status and flying skill during geomagnetic performance while flying the UH-60 helicopter simulator the annealed Hopefield network p 142 N93-19466 p 257 A93-35251 in NBC conditions in a controlled heat environment ALANINE p 129 N93-20400 Alcoholism and treatment in airline aviators - One [AD-A258502] Alanine increases blood pressure during hypotension p 257 A93-35499 Subjective fatigue in A-6, F-14, and F/A-18 aircrews company's results p 203 A93-33027 Structural and cytochemical signs of the development during operations Desert Shield and Storm **ALBUMINS** p 171 N93-20580 deadaptation, as determined from blood IAD-A2592431 p 252 A93-36724 Atomic structure and chemistry of human serum characteristics In-flight field-of-view with ANVIS p 200 A93-31628 p 235 N93-23992 Influence of aging and practice on piloting tasks IAD-A2599051 p 286 A93-39708 Amino acid sequences for the binding regions in serum Effects on physiology and performance of wearing the aviator NBC ensemble while flying the UH-60 helicopter The Marine Corps albumin proteins Contact lenses in aviation p 289 A93-41172 flight simulator in a controlled heat environment INASA-CASE-MES-28402-11 p 276 N93-28952 Prevalence of corrective lens wear in Royal Australian IAD-A2599091 p 235 N93-23995 ALCOHOLS p 289 A93-41173 Air Force flight crews The five-factor personality model and naval aviation Smoking status and body composition, exercise, dietary

intake, and alcohol/caffeine consumption

IAD-A2506481

p 23 N93-11893

p 225 N93-24319

Respiration curves as an index of pilot workload

p 332 A93-45320

candidates

LAD-A260227 L

SUBJECT INDEX **AMPHIBIA**

Effects of medium blood alcohol levels on pilots' Protein absorption and energy digestibility at high Influence of temperature and metabolic rate on work performance in the Sea King Simulator MK-41 p 115 A93-21683 performance with Canadian Forces NBC clothing --altitude Operation Everest II - Metabolic and hormonal p 125 N93-19683 nuclear, biological, and chemical assault protective ALDOSTERONE responses to incremental exercise to exhaustion garments p 389 A93-49218 p 115 A93-21685 Effect of hemorrhage on cardiac output, vasopressin, The relationship between environmental conditions and Effect of stays at medium-mountain altitude on the aldosterone, and diuresis during immersion in men UH-60 cockpit temperature p 6 N93-12014 [NASA-TM-103949] maintenance of the good health and high physical work IAD-A2559181 p 69 N93-14090 **ALERTNESS** capacity of cosmonauts over a prolonged period of time Ventilation loss in the NASA Space Shuttle crew p 250 A93-35255 Interactions between Hb, Mg, DPG, ATP, and CI Hazard alerting and situational awareness in advanced protective garments: Potential for heat stress air transport cockpits p 61 A93-14377 [AD-A258552] p 148 N93-19955 Identification of hazardous awareness states in determine the change in Hb-O2 affinity at high altitude AMINES monitoring environments p 279 A93-41117 Rett syndrome - Stimulation of endogenous biogenic p 287 A93-41324 ISAE PAPER 9211361 Hypoxic ventilatory responsiveness in Tibetan compared amines p 164 A93-28697 with Han residents of 3,658 m p 280 A93-41120 Evaluation of zolpidem on alertness and psychomotor Enhancement of drug detection and identification by use abilities among aviation ground personnel and pilots Minimal hypoxic pulmonary hypertension in normal of various derivatizing reagents on GC-FTIR analysis p 401 A93-55163 Tibetans at 3.658 m p 280 A93-41121 (AD-A2555821 p 95 N93-16041 Effects of chronic hypoxia and exercise on plasma The use of electrophysiological and cognitive variables Investigation of effects of 60-Hz electric and magnetic in the assessment of degradation during periods of erythropoietin in high-altitude residents fields on operant and social behavior and on the neuroendocrine system of nonhuman primates: p 331 A93-42191 sustained wakefulness Functional and structural adaptation of the yak [AD-A263033] p 283 N93-27923 Neuroendocrine portion of Experiment 4 Method of encouraging attention by correlating video pulmonary circulation to residence at high altitude IDE92-040955 J p 95 N93-16166 game difficulty with attention level [NASA-CASE-LAR-15022-1] p 326 A93-44181 AMINO ACIDS p 288 N93-28128 Changes in the phospholipid and cholesterol content Clinical and diagnostic requirements - Biochemical Human factors and the safety of flights: The importance of rat tissues during adaptation to high altitude at different exploration of amino acid metabolism, tRNA turnover and p 371 N93-32267 p 358 A93-47100 of the management of sleep environmental temperatures Respiratory changes and structure of sleep in young lymphocyte activation p 49 A93-17442 Algae and oxygen in earth's ancient atmosphere high-altitude dwellers in the Andes of Peru Detection of genetic effects of excess near-ultraviolet p 383 A93-49569 p 153 A93-27800 irradiation under exobiology conditions p 39 A93-17446 Influence of space-flight factors on growth of spirulina Operation Everest II - Spirometric and radiographic changes in acclimatized humans at simulated high The evolution of aminoacyl-tRNA synthetases, the p 199 A93-30441 p 383 A93-49574 Two circadian oscillators in one cell biosynthetic pathways of amino acids and the genetic p 239 A93-34518 Analysis of individual differences between psychological p 73 A93-17825 code reactions of humans under combined hypoxic stress p 388 A93-51115 Process for selectively recovering algae and protozoa Comet impacts and chemical evolution on the [NASA-CASE-MFS-26124-1-NPO] p 276 N93-29174 bombarded earth p 109 A93-17980 Marine microbial production of dimethylsulfide from Beta-adrenergic blockade and lactate metabolism during Effects of running the Bostom Marathon on plasma dissolved dimethylsulfoniopropionate exercise at high altitude concentrations of large neutral amino acids [NASA-CR-193278] p 334 N93-29820 p 330 N93-30665 p 160 A93-27048 ALGEBRA Field trial of caffeine on physical performance at altitude: Differential effects of insulin resistance on leucine and A weighted iterative algorithm for neuromagnetic An attempt to overcome the challenge glucose kinetics in obesity p 152 A93-27224 p 337 N93-30894 imaging AD-A264260 I A balanced carbohydrate:protein diet in the management IDE92-0402441 p 51 N93-13522 ALTITUDE CONTROL Flight-path estimation in passive low-altitude flight by of Parkinson's disease p 153 A93-27918 **ALGORITHMS** Nucleotide-protectable labeling of sulfhydryl groups in p 223 A93-32004 Eye movements and visual information processing subunit I of the ATPase from Halobacterium [AD-A250198] p 24 N93-10278 Perception/action: An holistic approach p 201 A93-32116 saccharovorum A weighted iterative algorithm for neuromagnetic p 235 N93-24067 ALTITUDE SICKNESS Melatonin and its precursors in Y79 human retinoblastoma cells - Effect of sodium butyrate [DE92-0402441 p 51 N93-13522 The influence of prior exercise at anaerobic threshold p 214 A93-32120 on decompression sickness p 8 A93-10333 The perception of articulated motion: Recognizing moving light displays [AD-A256046] Time to detection of circulating microbubbles as a risk Effects of dietary amino acids, carbohydrates, and factor for symptoms of altitude decompression sickness n 59 N93-14660 choline on neurotransmitter synthesis p 46 A93-16153 p 204 Transcutaneous Analyte Measuring Methods (TAMM), A93-33031 phase 2 High-altitude pulmonary edema with pulmonan Some proteins keep 'living fossil' pre-sequence thromboembolism p 278 A93-39709 [AD-A256327] n 54 N93-15192 p 244 A93-36562 Long-lasting neuropsychological changes after a single igh altitude climb p 278 A93-39713 On the reaction of 2-aminopropionitrile in aqueous Automatic detection of seizures with applications p 354 A93-43791 p 254 N93-25592 high altitude climb media Body fluid compartments, renal blood flow, and Effect of cytoskeletal reagents on stretch activated ion A simulation of Evaporation cycle experiments hormones at 6,000 m in normal subjects salt-induced peptide synthesis under possible prebiotic p 281 [AD-A261089] p 245 N93-25764 A93-41125 conditions p 354 A93-43792 Endotoxin priming followed by high-altitude causes Catalytic accretion of thermal heterocomplex molecules An algorithm for simple and complex feature detection: pulmonary edema in rats p 323 A93-42186 from amino acids in aqueous milieu p 354 A93-43793 rom retina to primary visual cortex Does drinking protect against mountain sickness? p 337 N93-30897 Relationship between G + C in silent sites of codons 1AD-A2643061 p 382 A93-49565 ALLERGIC DISEASES and amino acid composition of human proteins p 358 A93-47099 Occupational dermatitis in the aircraft industry - 35 years The Environmental Symptoms Questionnaire (ESQ): Development and application p 215 A93-32776 Kinetics of peptide hydrolysis and amino acid of progress Allergic, Immunological and Infectious Disease Problems IAD-A2641271 p 335 N93-30196 decomposition at high temperature --- space biochemical **ALTITUDE SIMULATION** in Aerospace Medicine evolution p 411 A93-53289 Operation Everest II - Gas tensions in expired air and [AGARD-CP-518] p 14 N93-11283 Comment on Summary and implications of reported arterial blood at extreme altitude p 117 A93-24043 Immunological parameters in current and former US Air amino acid concentrations in the Murchison meteorite' by Cardiovascular responses to upright tilt at a simulated p 16 N93-11295 Force personnel F. L. Shock and M. D. Schulte. n 412 A93-53294 altitude of 3,700 m in men p 212 A93-30281 A model for the prebiotic synthesis of peptides which Epidemiologic view of allergic diseases in North America: p 20 N93-11311 Implications for aerospace medicine ALTITUDE TOLERANCE throws light on the origin of the genetic code and the Effects of simulated high altitude exposure on The screening of inhalant allergic diseases in the observed chirality of life p 412 A93-56000 long-latency event-related brain potentials Amino acid sequences for the binding regions in serum selection of candidates for aircraft piloting performance p 21 N93-11312 p 117 A93-24042 albumin proteins Operation Everest II - Gas tensions in expired air and [NASA-CASE-MFS-28402-1] Phadiatop: A screening test for inhalant allergy p 21 N93-11313 p 276 N93-28952 p 117 A93-24043 arterial blood at extreme altitude Spontaneous regulating mechanisms that may have led to the origin of life Cardiovascular responses to upright tilt at a simulated In vivo and in vitro diagnosis of allergic respiratory altitude of 3,700 m in men p 212 A93-30281 IDE93-6036771 p 331 N93-31161 disease during screening procedures in the Italian Navy: Comparative evaluation of a recent quantitative Altitude stress and cosmonaut training p 262 AMMONIA A93-35235 automatized enzyme immunoassay method to dose On the reaction of 2-aminopropionitrile in aqueous Effect of stays at medium-mountain altitude on the p 354 A93-43791 specific laE p 21 N93-11314 media Hydrothermal organic synthesis ex maintenance of the good health and high physical work Allergy screening and follow-up in student pilots of the periments capacity of cosmonauts over a prolonged period of time p 21 N93-11316 INASA-CR-1912571 p 41 N93-13457 Belgian Air Force (BAF) p 250 A93-35255 AMMONIUM NITRATES Allergic and nonallergic rhinitis in Greek pilots Development of the nitrogen fixation system for p 21 N93-11317 **ALVEOLI** Time course of functional repair of the alveolar **ALPHANUMERIC CHARACTERS** CELSS epithelium after hyperoxic injury p 78 A93-20032 [SAE PAPER 921238] Display format and highlight validity effects on search p 297 A93-41411

The chronic effects of iP-8 jet fuel exposure on the

The quality of an operator's work on a flight simulator

Skin temperature and heat flow of head-neck region

under different ambient temperatures p 46 A93-16074

p 334 N93-30153

p 45 A93-15172

performance using complex visual displays

ALTITUDE ACCLIMATIZATION

Head-up display standardization and the utility of analog

Effects of a 1-yr stay at altitude on ventilation metabolism, and work capacity p 92 A93-20028

vertical velocity information during instrument flight

ALTIMETERS

p 187 A93-27160

p 189 A93-27451

p 92 A93-20028

lungs

(AD-A2641621

AMBIENT TEMPERATURE

under conditions of thermal discomfort

Early amphibian (anuran) morphogenesis is sensitive to p 156 A93-28745 novel gravitational fields

Pharmacological countermeasures against motion

Effects of dextromethamphetamine on subjective

AMPHETAMINES

[AD-A258252]

fatique

AMPHIBIA

p 404 A93-55945

p 119 N93-17822

Altering the position of the first horizontal cleavage p 16 N93-11293 Silent HIV infection Epidemiologic research in Antarctica lurrow of the amphibian (Xenopus) egg reduces embryonic p 81 N93-16800 Analysis of disease progression from clinical survival p 272 A93-39717 observations of US Air Force active duty members infected Summary of presentation for research on social AMPLITUDE MODULATION structure, agreement, and conflict in groups in extreme with the Human Immunodeficiency Virus: Distribution of Auditory spectro-temporal pattern analysis p 99 N93-16801 AIDS survival time from interval censored observations and isolated environments IAD-A2646911 p 361 N93-31981 p 17 N93-11297 NASA/NSF Antarctic Science Working Group ANAEROBES Susceptibility in USAF recruits to vaccine preventable seases p 18 N93-11301 p 81 N93-16802 Ferrous iron oxidation by anoxygenic phototrophic NASA/NSF Workshop on Antarctic Research diseases Measuring the metastatic potential of cancer cells bacteria p 271 A93-39280 n 81 N93-16803 Anaerobic treatment of organic wastes from Controlled p 244 N93-25566 Immunology presentation at the 1990 NASA/NSF Ecological Life Support Systems Antarctica Biomedical Science Working Group Primary events in olfactory reception **ISAE PAPER 9212721** p 301 A93-41442 [AD-A260562] p 255 N93-25944 p 81 N93-16806 Biological conversion of synthesis gas Pseudomonas screening assay ANTENNA ARRAYS |DE92-017673| p 40 N93-13269 INASA-CASE-NPO-17653-1-CUÍ p 245 N93-25994 Wide-bandwidth high-resolution search biology Molecular anaerobio aromatic extraterrestrial intelligence Evaluation of dried storage of platelets for transfusion: biodegradation Physiologic integrity and hemostatic functionality INASA-CR-1916181 p 110 N93-15825 p 42 N93-13863 IAD-A2632401 p 334 N93-29620 ANTENNA DESIGN ANALOG CIRCUITS ANTICHOLINERGICS Wide-bandwidth high-resolution search for Silicon neuron extraterrestrial intelligence Idaverine, an M2- vs. M3-selective muscarinic [AD-A255091] p 50 N93-12756 [NASA-CR-191618] p 110 N93-15825 antagonist, does not prevent motion sickness in cats ANATOMY p 327 A93-44878 search Wide-bandwidth high-resolution for Proceedings of Workshop 1: The Human Brainmap **ANTICONVULSANTS** extraterrestrial intelligence Oatabase INASA-CR-191807 p 110 N93-16709 Autoradiographic distribution and applied 1AD-A2607201 p 258 N93-25654 pharmacological characteristics of dextromethorphan and ANTHROPOLOGY Anatomy and physiology of plant conductive systems related antitissue/anticonvulsant drugs and novel Space migrations: Anthropology and the humanization | PB93-156032 | p 245 N93-25877 analogs p 105 N93-16862 ANEMIAS [AD-A255607] p 54 N93-15009 ANTHROPOMETRY Effects of simulated microgravity (HDT) on blood ANTIDIURETICS Anthropometry for HMD design fluidity three-dimensional quantitative morphology Effect of hemorrhage on cardiac output, vasopressin, p 44 A93-14972 Fundamental diagnostic hematology: Anemia (second D 229 aldosterone, and diuresis during immersion in men A93-30069 p 6 N93-12014 edition) [PB93-188662] Astronaut candidate strength measurement using the [NASA-TM-103949] p 338 N93-31140 ANTIDOTES Cybex 2 and the LIDO Multi-Joint 2 dynamometers **ANGIOGRAPHY** p 34 N93-12195 Effects of 2 mg and 4 mg atropine sulfate on the [NASA-CR-185679] Cardiovascular Risk Factors (CVRF) in Spanish pilots Methodology issues concerning the accuracy of performance of U.S. Army helicopter pilots with coronary artery disease demonstrated by angiographic A93-10326 p 7 kinematic data collection and analysis using the ariel p 362 N93-32253 ANTIEMETICS AND ANTINAUSEANTS studies performance analysis system ANGLE OF ATTACK Buspirone blocks cisplatin-induced emesis in cats INASA-CR-1856891 p 34 N93-12211 Predictive nosepointing and flightpath displays for p 324 A93-42668 Human perceptual deficits as factors in computer air-to-air combat p 229 A93-30071 Applied chemical engineering thermodynamics interface test and evaluation ANGLES (GEOMETRY) [ISBN 0-387-54759-2] p 357 A93-46075 I DE92-019124 | p 63 N93-12712 The effect of variable seat back angles on human ANTIFOULING A comparison of hand grasp breakaway strengths and response to + Gz impact accelerations Biofilm ecology of bioluminescent bacteria (AD-A255282) p 42 bare-handed grip strengths of the astronauts, SML 3 test [AD-A250673] p 31 N93-11559 p 42 N93-14532 subjects, and the subjects from the general population ANGULAR VELOCITY ANTIGENS p 96 N93-16619 INASA-TP-32861 p 16 N93-11293 Factors influencing perceived angular velocity The design and use of automotive crash test dummies Silent HtV infection p 142 N93-19669 Immunological parameters in current and former US Air p 97 A93-17800 Methodology issues concerning the accuracy of p 16 N93-11295 An improved anthropometric test device p 143 N93-19670 Early markers of HIV infection and subclinical disease kinematic data collection and analysis using the ariel performance analysis system p 17 N93-11296 progression Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, NASA-CR-1856891 Use of novel adjuvants and delivery systems to improve p 34 N93-12211 Symbology for head up and head down applications for highly agile fighter aircraft: To improve spatial awareness, the humoral and cellular immune response to malaria p 20 N93-11308 vaccine candidate antigens I AD-A260869 I p 265 N93-25628 trajectory control, and unusual attitude recovery, part 1 Cytokines as vaccine adjuvants: Interleukin 1 and its Anthropometry of the foot and lower leg of U.S. Army synthetic peptide 163-171 p 20 N93-11309 p 318 N93-28857 soldiers: Fort Jackson, SC ANTIHISTAMINICS p 268 N93-26404 LAD-A2614051 The effects of Benadryl and Hismanal on mood, Revision of the Wind River faunas, early Eocene of Anthropometric data from launch and entry suited test central Wyoming. X - Bunophorus physiological measures, antihistamine detection, and horus (Mammalia, p 203 A93-33026 subjects for the design of a recumbent seating system p 385 A93-52302 [NASA-TM-104769] p 321 N93-29044 subjective symptoms The effects of Benadryl and Hismanal on psychomotor Anthropometric survey of the astronaut applicants and Physiological analyses of the afferents controlling brain performance and perceived performance neurochemical systems astronauts from 1985 to 1991 p 385 A93-52303 [NASA-RP-1304] [AD-A253185] p 14 N93-11146 p 321 N93-29324 Effects of terfenadine and diphenhydramine on brain Scaling issues for biodiversity protection Methods for characterizing the human head for the [DE92-016689] p 6 N93-12315 activity and performance in a UH-60 flight simulator design of helmets p 119 N93-17817 An overview of gravitational physiology [AD-A263875] IAD-A2580121 ANTIINFECTIVES AND ANTIBACTERIALS INASA-TM-1028491 p 35 N93-12319 An annotated bibliography of research involving women, conducted at the US Army Research Institute of Relative resistance of biofilms and planktonic cells of Environmental health discipline science plan p 173 N93-21369 common molds and yeasts to antimicrobials [SAE PAPER 921212] p 273 [NASA-TM-108042] Environmental Medicine p 273 A93-41388 CEBAS-Aquarack: An artificial aquatic animal plant AD-A2654971 p 360 N93-31917 ecosystem as a tool for basic research in the Columbus Clinical and immunological response to vaccination with Abridged procedural guide to aircrew anthropometric p 210 N93-24401 Space Station parenteral or oral vaccines in two groups of 30 recruits accommodation assessment p 19 N93-11305 Multiple neuron recording in the hippocampus of freely p 366 N93-32006 IAD-A2652201 moving animals Correlation of life-style and dietary concomitants of Rapid susceptibility testing of mycobacterium avium p 369 N93-32256 IAD-A264807| p 330 N93-30594 Greek pilots with serum analytes complex and mycobacterium tuberculosis isolated from AIDS patients ANIMATION ANTIADRENERGICS p 172 N93-20736 INASA-CR-1923821 Influence of animation on dynamical judgments Xylazine emesis, yohimbine and motion sickness p 324 A93-42450 ANTIOXIDANTS p 98 A93-20275 susceptibility in the cat Lipid peroxidation and the antioxidant defense system Influence of animation on dynamical judgments Beta-adrenergic blockade and lactate metabolism during p 180 A93-28692 in rats after a 13-day flight on the Cosmos-1887 biosatellite p 239 A93-35210 exercise at high altitude ANISOTROPY [AD-A263544] p 334 N93-29820 Anisotropy in an ambiguous kinetic depth effect Changes in the intensity of free-radical reactions in the ANTIBIOTICS p 55 A93-14097 Effects of refrigerating preinoculated Vitek cards on organs of rats under hypokinetic stress, protected by the delta-sleep-inducing peptide and its tyrosine-containing ANNOTATIONS microbial physiology and antibiotic susceptibility ISAE PAPER 921214 p 273 A analogue ANTISEPTICS p 378 A93-51101 p 273 A93-41390 An annotated bibliography of research involving women, conducted at the US Army Research Institute of ANTIBODIES Aseptic technique in microgravity p 168 A93-28737 Environmental Medicine Structure of a human monoclonal antibody Fab fragment I AD-A265497 I p 360 N93-31917 against gp41 of human immunodeficiency virus type Regenerable biocide delivery unit, volume 1 p 153 A93-28698 [NASA-CR-185701-VOL-1] ANNUAL VARIATIONS p 274 N93-27122 Seasonal effects on human physiological adaptation Structure of a human monoclonal antibody Fab fragment An assessment of Turkish Air Force pilots' anxiety and factors, thermotolerance and plasma fibronectin against gp41 of human immunodeficiency virus type 1 p 23 A93-10334 p 203 A93-32850 depression levels p 47 A93-16157 Assessing for preflight predictors of airsickness Some indices of humoral immunity in Rhesus monkeys ANOXIA Rett syndrome - Stimulation of endogenous biogenic p.8 A93-10335 under the effect of extreme space flight factors

p 241 A93-35258

p 16 N93-11292

method

Study of the relationship between therapeutic effects

p 11 A93-13716

and control parameters of ECP using a simulation

Estimates of Human Immunodeficiency Virus (HIV)

incidence and trends in the US Air Force

amines

exobiology

ANTARCTIC REGIONS

Relevance of antarctic microbial

p 164 A93-28697

ecosystems

p 355 A93-44877

SUBJECT INDEX		
APERTURES		
A fiber optic probe for the detection	p 254	aracts N93-2559
APPLICATIONS PROGRAMS (COMPL Application of RADTRAN to est persons in enclosed spaces	JTERS) imation	of doses to
[DE93-000758]	p 97	N93-1723
Space life support engineering pro [NASA-CR-192188]	p 141	N93-1903
Microcomputer based software simulation APPROACH	e for p 196	biodynami N93-2219
The effect of geometric field of vie for perspective flight-path displays	w and t	unnel desig
ISAE PAPER 9211311 APPROACH CONTROL	p 291	A93-4131
Simulation and flight test evaluatio guidance for Harrier approach transit	n of hea	ad-up-displa
(AIAA PAPER 92-4233) APTITUDE		A93-1333
Predicting individual differences acquisition - Dynamics of ability deter	in co	omplex ski
	p 181	A93-2873
The unique contribution of selected the prediction of success in naval pill [AD-A258144]	ot trainii	natity tests to ng N93-1829
AQUATIC PLANTS Methane transport mechanism		
fractionation in emergent macrophy tundra lake	tes of	an Alaska
CEBAS-Aquarack: An artificial a	p 38	
ecosystem as a tool for basic resear		
Space Station		N93-2440
AQUEOUS SOLUTIONS		
On the reaction of 2-aminopropio media		n aqueou A93-4379
Catalytic accretion of thermal heter	ocomple	ex molecule
from amino acids in aqueous milieu	•	A93-4379
Hydrothermal dehydration of compounds	aqueo	
AQUIFERS Anaerobic microbial transforma		
hydrocarbons and mixtures of aromat		of aromati carbons an
halogenated solvents AD-A255696	p 42	N93-1455
ARCHAEBACTERIA	·	
Modern life at high temperature taxonomy of extreme-thermophilic ba	acteria	
Protorial guifato radication above	p 74	A93-1800
Bacterial sulfate reduction above hydrothermal vent sediments		A93-2067
Nucleotide-protectable tabeling of subunit I of the ATPase from		ryl groups i
saccharovorum	p 201	A93-3211
Chloroflexus aurantiacus and u Implications for Archean shallow-wat	er stron	atolites
ARCHITECTURE	p 400	A93-5599
Lunar habitats - Places for people		***
Lunar base requirements for huma		A93-4199
zona. Daso roquionichis for hama		A93-4199
Preliminary design study o configurations		ar housin N93-1744
Evolving concepts of lunar archite		
of subselene development	p 107	N93-1744
Mars habitat Selenia: A habitability study for th	p 352 a davel	N93-2974
third generation lunar base		N93-2974
ARCHITECTURE (COMPUTERS) An overview of the dynamic prediction	ctive arc	hitecture fo
robotic assistants	p 191	A93-2911
Person-like intelligent systems arcl shared control and automated opera	tions	
An operational evaluation proces	p 191 s for lo	
mission habitats in space	p 345	A93-4211
A manipulator control testbed - applications	Implem	entation an
[AAS PAPER 92-054]	р 392	A93-5059
Optimizing dynamic transparent		
architectures	- 000	A00 5050

moving light displays

IAD-A2560461

[AGARD-CP-520]

ARCTIC REGIONS

p 59 N93-14660

p 317 N93-28850

p 99 N93-16801

ARTERIOSCLEROSIS

population: Preliminary report

constrictions

Wall shear stress estimates in coronary artery

Cardiovascular risk factors in an Italian Air Force

p 170 A93-28759

p 362 N93-32252

Combat Automation for Airborne Weapon Systems:

Summary of presentation for research on social structure, agreement, and conflict in groups in extreme

Man/Machine Interface Trends and Technologies

p 254 N93-25593	Compar
LICATIONS PROGRAMS (COMPUTERS)	iron io
Application of RADTRAN to estimation of doses to	keV/mid
ersons in enclosed spaces	ARM (AN
DE93-000758 p 97 N93-17230	Decre
Space life support engineering program	body co Gravit
IASA-CR-192188 p 141 N93-19039 Microcomputer based software for biodynamic	position
Microcomputer based software for biodynamic pulation p 196 N93-22191	Bar-h
PROACH	NASA-
The effect of geometric field of view and tunnel design	Contr
r perspective flight-path displays	INASA-
AE PAPER 9211311 p 291 A93-41319	Aime
ROACH CONTROL	ARMED F
Simulation and flight test evaluation of head-up-display	Rece
ridance for Harrier approach transitions	selectio
MAA PAPER 92-4233) p 28 A93-13331	27 ye
ITUDE Predicting individual differences in complex skill	toxicolo
Predicting individual differences in complex skill equisition - Dynamics of ability determinants	Develop
p 181 A93-28731	ARMED F
The unique contribution of selected personality tests to	Dram
e prediction of success in naval pilot training	military
D-A258144] p 132 N93-18291	vaccina
JATIC PLANTS	ARMED F
Methane transport mechanisms and isotopic	Viral I
actionation in emergent macrophytes of an Alaskan ndra lake 0.38 A93-16544	Estim
ndra lake p 38 A93-16544 CEBAS-Aquarack: An artificial aquatic animal plant	incidend
cosystem as a tool for basic research in the Columbus	
pace Station p 210 N93-24401	lmmu
JEOUS SOLUTIONS	Force p
On the reaction of 2-aminopropionitrile in aqueous	Neuro
edia p 354 A93-43791	Implicat
Catalytic accretion of thermal heterocomplex molecules	Susce
om amino acids in aqueous milieu p 354 A93-43793	disease
Hydrothermal dehydration of aqueous organic	Introd
pmpounds p 397 A93-53291	The trai
JIFERS Anaerobic microbial transformation of aromatic	IAD-A2
Anaerobic microbial transformation of aromatic of drocarbons and mixtures of aromatic hydrocarbons and	A par
alogenated solvents	(AD-A2
ND-A255696 p 42 N93-14557	dimensi
CHAEBACTERIA	1946-19
Modern life at high temperatures evolution and	AD-A2
xonomy of extreme-thermophilic bacteria	United
p 74 A93-18003	[AD-A26
Bacterial sulfate reduction above 100 C in deep-sea refronthermal vent sediments p 80 A93-20672	ARMOR Studi
Nucleotide-protectable labeling of sulfhydryl groups in	armor
bunit I of the ATPase from Halobacterium	AD-A2
ccharovorum p 201 A93-32116	A pro
Chloroflexus aurantiacus and ultraviolet radiation -	designe
oplications for Archean shallow-water stromatolites	AROMAT
p 400 A93-55999	Labor
CHITECTURE	Labor
Lunar habitats - Places for people	Molec
p 344 A93-41991	biodegra
Lunar base requirements for human habitability p 345 A93-41995	IAD-A2
Preliminary design study of lunar housing	AROUSA
onfigurations p 106 N93-17443	Predic acquisit
Evolving concepts of lunar architecture: The potential	acquisii
subselene development p 107 N93-17447	Asses
Mars habitat p 352 N93-29747	and res
Selenia: A habitability study for the development of a	Physi
ird generation lunar base p 352 N93-29748	neuroch
CHITECTURE (COMPUTERS)	JAD-A2
An overview of the dynamic predictive architecture for botic assistants p 191 A93-29112	The r and sele
Person-like intelligent systems architectures for robotic	IAD-A2
nared control and automated operations	ARRHYTI
p 191 A93-29113	The r
An operational evaluation process for long-duration	space f
ission habitats in space p 345 A93-42114	Fluor
A manipulator control testbed - Implementation and oplications	among
AS PAPER 92-054] p 392 A93-50594	Carbo
Optimizing dynamic transparency in teleoperator	cardiac
chitectures	(PB93-1
AS PAPER 92-056) p 392 A93-50596	ARTERIE Distril
The perception of articulated motion: Recognizing	Distric

```
ASTHMA
ARGON
                                                             ARTIFICIAL CARDIAC PACEMAKER
    Accelerated heavy particles and the lens VIII -
                                                                                                  p 215 A93-32778
                                                                 Cardiac pacing and aviation
         risons between the effects of acute low doses of
                                                             ARTIFICIAL GRAVITY
         ns (190 keV/microns) and argon ions (88
                                                                 Artificial gravity augmentation on the moon and Mars
                                                                 p 346 A93-42127
Arterial oxygen saturation during + Gz acceleration by
                                     p 216 A93-32784
         crons)
         ment in manual arm performance during whole
                                                               short-radius centrifuge
                                                                                                  p 379 A93-49178
                                                                 Clinostats and centrifuges: Their use, value, and
         polina
                                      p 88 A93-18038
         toinertial force level affects the appreciation of limb
                                                               limitations in gravitational biological research; Symposium,
          during muscle vibration
                                     p 169 A93-28744
                                                               Washington, Oct. 19, 1991, Report p 375 A93-49206
         olding prosthetic limb
                                                                 Centrifuges - Their development and use in gravitational
         CASE-MFS-28481-1|
                                      p 70 N93-14870
                                                                                                  p 376 A93-49210
                                                               biology
         ol system and method for prosthetic devices
                                                                 Centrifuges - Evolution of their uses in plant gravitational
                                     p 106 N93-17087
         CASE-MSC-21941-11
                                                               biology and new directions for research on the ground
                                                                                                  p 376 A93-49211
         d arm movements under changed gravity
                                                               and in spaceflight
                                     p 193 N93-21113
                                                             ARTIFICIAL INTELLIGENCE
         ORCES
                                                                 Cooperative intelligent robotics in space II; Proceedings
         nt developments in U.S. Air Force pilot candidate
                                                               of the Meeting, Boston, MA, Nov. 12-14, 1991
         n and classification
                                      p 97 A93-18046
                                                               |SPIE-16121
                                                                                                  p 182 A93-27001
         ears armed forces aerospace pathology and
                                                                Intelligent robotics capabilities of the teleautonomy
         gy in the Federal Republic of Germany:
                                                                                                 p 184 A93-27035
         ment, current status, trends and challenges
                                                                 Human-centered automation and AI - Ideas, insights,
                                     p 126 N93-19696
                                                               and issues from the Intelligent Cockpit Aids research
         ORCES (FOREIGN)
                                                                                                  p 407 A93-52764
         atic reduction of meningococcal meningitis among
                                                                 Ontology of mind, subjective ontology, and the example
          recruits in Italy after introduction of specific
                                                               of temporal expressions
                                     p 18 N93-11303
                                                               IREPT-92-0181
                                                                                                    p 26 N93-11212
         ORCES (UNITED STATES)
                                                                 From pilot's
                                                                               associate to satellite controller's p 32 N93-11922
         nepatitis in the US Air Force, 1980 - 1989
                                                               associate
         p 15 N93-11287
nates of Human Immunodeficiency Virus (HIV)
                                                                                                 team maturing? The
                                                                 The human-electronic crew: Is the
                                                                                                    Workshop
                                                               2nd Joint
                                                                               GAF/RAF/USAF
         e and trends in the US Air Force
                                                               Human-Electronic Crew Teamwork
                                      p 16 N93-11292
                                                               [AD-A256192]
                                                                                                    p 69 N93-14520
         nological parameters in current and former US Air
                                                                 A voyage to Mars: A challenge to collaboration between
                                      p 16 N93-11295
                                                                                                   p 70 N93-14614
                                                               man and machines
         posychiatric morbidity in early HIV disease:
                                                                 A monitoring and control system for complex
         ions for military occupational function
                                                               man-machine systems: Preliminary design
                                      p 18 N93-11299
                                                                                                   p 70 N93-14951
         eptibility in USAF recruits to vaccine preventable
                                                                                                  p 148 N93-19784
                                                                 Adaptive autonomous target cuer
                                      p 18 N93-11301
                                                                 Analysis and synthesis of adaptive neural elements and
         luction to training decisions modeling technologies:
                                                                                                  p 219 N93-24247
         ning decisions system
                                                               LAD-A2599541
                                      p 27 N93-12252
                                                                 Neural basis of motion perception
         adigm shift in Air Force medicine
                                                                                                  p 260 N93-26349
                                                               [AD-A261452]
         58334| p 121 N93-18159
ssing patterns of change in anthropometric
                                                                 Operator and automation capability analysis: Picking the
                                                               right team
                                                                                                  p 319 N93-28864
         ons: Secular trends of US Army females,
                                                                          interface considerations
                                                                 Cognitive
                                                                                                     for intelligent
                                                                                                  p 319 N93-28865
                                                               cockpits
         608691
                                     p 265 N93-25628
         d States Army space experiment 601
                                                                Effect of protective clothing ensembles on artillery
                                    p 260 N93-26353
                                                               battery crew performance
                                                               AD-A254327 |
                                                                                                   p 64 N93-12960
         ies of a laser/nuclear thermal hardened body
                                                             ARTILLERY FIRE
                                                                 Effect of protective clothing ensembles on artillery
         551281
                                      p 34 N93-12423
                                                               battery crew performance
         ogressive resistance weight training program
                                                               IAD-A2543271
                                                                                                   n 64 N93-12960
          to improve the armor crewman's strength
                                                             ASCORBIC ACID
                                      p 53 N93-14556
                                                               Investigation of laser-induced retinal damage [AD-A264096] p 338 N
         555531
         C COMPOUNDS
                                                                                                  p 338 N93-31094
         atory simulation of organic grain mantles
                                                             ASSAYING
                                     p 268 A93-36554
                                                                Methods development for total organic carbon
                biology
                                                               accountability
         adation
                                                               [NASA-CR-184438]
                                                                                                    p 40 N93-12949
         552131
                                      p 42 N93-13863
                                                                 Kinetic tetrazotium microtiter assav
                                                               NASA-CASE-MSC-21979-1
                                                                                                   p 82 N93-17049
         cting individual differences in complex skill
                                                                 Pseudomonas screening assay
         ion - Dynamics of ability determinants
                                                               INASA CASE-NPO-17653-1-CUI
                                                                                                  p 245 N93-25994
                                     p 181 A93-28731
                                                             ASSESSMENTS
         sing pilot workload - Why measure heart rate, HRV
                                                                 The application of integrated knowledge-based systems
                                     p 168 A93-28741
                                                               for the Biomedical Risk Assessment Intelligent Network
         ological analyses of the afferents controlling brain
                                                               (BRAIN)
                                                                                                  p 258 N93-25595
         nemical systems
                                                             ASTEROIDS
                                      p 14 N93-11146
         53185]
                                                                 The fate or organic matter during planetary accretion -
         ole of central monoaminergic systems in arousal
                                                               Preliminary studies of the organic chemistry of
         ective attention
                                                               experimentally shocked Murchison meteorite
         585001
                                     p 122 N93-18264
                                                                                                  p 110 A93-17984
                                                             ASTHENOPIA
                                                                 Motion sickness and oculomotor systems in virtual
         hythm of heart activity and arrhythmia in long-term
                                                                environments
                                                                                                  p 381 A93-49400
         liahts
                                     p 119 A93-25652
                                                             ASTHMA
         ocarbon 113 exposure and cardiac dysrhythmias
                                                                 Epidemiologic view of allergic diseases in North America:
         aerospace workers
                                    p 168 A93-28739
                                                               Implications for aerospace medicine p 20 N93-11311
         on monoxide exposure of subjects with documented
                                                                 The screening of inhalant allergic diseases in the
         arrhythmias
                                                               selection of candidates for aircraft piloting
                                     p 337 N93-30890
         799431
                                                                                                   p 21 N93-11312
                                                                 Phadiatop: A screening test for inhalant allergy
         bution of oxygen tension in pial arterioles of rats
                                                                                                   p 21 N93-11313
                                      p 76 A93-18295
  under normobaric hyperoxia
                                                                 In vivo and in vitro diagnosis of allergic respiratory
    Influence of ten-day head-down bedrest on human
                                                               disease during screening procedures in the Italian Navy:
Comparative evaluation of a recent quantitative
  carotid baroreceptor-cardiac reflex function
                                     p 161 A93-28678
```

p 21 N93-11314

p 21 N93-11315

p 21 N93-11317

automatized enzyme immunoassay method to dose

Asthma in aircrew: Assessment, treatment

Allergic and nonallergic rhinitis in Greek pilots

specific InE

disposition

ASTRONAUT LOCOMOTION **ASTRONAUT LOCOMOTION** A study to explore locomotion patterns in partial gravity environments |SAE PAPER 921157| p 293 A93-41340 An analysis of human performance in simulated artial-gravity environments p 347 A93-42173 partial-gravity environments Human locomotion and workload for simulated lunar and Martian environments p 394 A93-52406 ASTRONAUT PERFORMANCE Formation of the hypokinetic syndrome in the digestive system under conditions of weightlessness p 119 A93-25600 Space and cognition - The measurement of behavioral functions during a 6-day space mission p 405 A93-55164 **ASTRONAUT TRAINING** The training of the new astronaut candidates at EAC p 129 A93-23693 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Networked simulation for team training of Space Station astronauts, ground controllers, and scientists - A training p 179 A93-27188 and development environment European astronaut candidates in training in the CIS p 256 A93-34593 Effect of stays at medium-mountain altitude on the maintenance of the good health and high physical work capacity of cosmonauts over a prolonged period of time p 250 A93-35255 NASA Specialized Center for Research and Training (NSCORT) in space environmental health [SAE PAPER 921358] p 307 A93-41517 User evaluation of a stereoscopic display for space aining applications p 408 A93-53123 training applications The European astronauts training programme p 226 N93-24346 Mir 1992 operations and crew training p 226 N93-24352 Development and implementation of the MotoMir experiment on the Mir Space Station p 220 N93-24363

Background and objectives of the PARAT program p 343 N93-31230

ASTRONAUTS

A computer model to determine the primary contributors to relative radiation dose received by astronauts p 43 A93-13935

Contribution of psychiatry to life in space

p 56 A93-15529 Effect of hypergravity on astronauts in space flight

p 48 A93-16254 A new generation of astronauts in space - The astronaut selection process p 57 A93-17071 Method of selection of astronauts cardiovascular

regulative function under simulated weightlessness p 91 A93-19995

Preliminary analysis of sensory disturbances and behavioral modifications of astronauts in space

p 130 A93-25207 Results of a structured psychiatric interview to evaluate NASA astronaut candidates p 223 A93-32780 Longitudinal study of astronaut health - Mortality in the years 1959-1991 ears 1959-1991 p 216 A93-32783 Metabolism in cosmonauts - Results of biochemical blood analyses for crew members of seven primary missions on the Mir orbital station p 250 A93-35254

A comparison of hand grasp breakaway strengths and bare-handed grip strengths of the astronauts, SML 3 test subjects, and the subjects from the general population p 96 N93-16619 [NASA-TP-3286]

Design of a resistive exercise device for use on the Space Shuttle

[NASA-CR-192079] p 108 N93-17805 Design of a reusable kinetic energy absorber for an astronaut safety tether to be used during extravehicular activities on the Space Station

INASA-CR-1920151 p 139 N93-17973 Pax permanent Martian base: Space architecture for the first human habitation on Mars, volume 5

p 140 N93-18156 INASA-CR-1920421 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Selection of astronauts for European space missions

p 225 N93-24345 Vascular uptake of rehydration fluids in hypohydrated men at rest and exercise

p 255 N93-26133 [NASA-TM-103942] Anthropometric survey of the astronaut applicants and astronauts from 1985 to 1991 p 321 N93-29324

[NASA-RP-1304] ASTRONOMY SETI in Europe p 237 N93-23908

ASTROPHYSICS The solar system: Importance of research to the p 113 N93-18547 biological sciences

ASYMMETRY

Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change p 242 A93-35264

Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility

[NASA-CR-193304] p 363 N93-32364

ATAXIA

Vestibular ataxia following shuttle flights - Effects of microgravity on otolith-mediated sensorimotor control of posture p 169 A93-28750

ATMOSPHERIC CHEMISTRY

p 114 N93-18553 Titan

ATMOSPHERIC COMPOSITION

Algae and oxygen in earth's ancient atmosphere p 153 A93-27800

Biosphere 2 - Overview of system performance during the first nine months p 291 A93-41317 |SAE PAPER 921129|

Pressure, composition, and temperature control of cabin atmosphere on Space Station Freedom

[SAE PAPER 921216] p 296 A93-41392 The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO

[DE92-019411] p 5 N93-11630 Engineering verification of the biomass production p 67 N93-13996 chamber

The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf proteins p 115 N93-19751

[DE93-002940] ATMOSPHERIC MODELS

Titan p 114 N93-18553

ATMOSPHERIC PRESSURE

Subjective reactions and objective assessment of the auditory and ventilatory functions of the middle ear during p 45 A93-15174 changes in atmospheric pressure On a possible role of carbon dioxide in the genesis of

p 200 A93-31190 the hyperbaric neural syndrome p 200 Å93-31190
Pressure, composition, and temperature control of cabin

atmosphere on Space Station Freedom [SAE PAPER 921216] p p 296 A93-41392

ATMOSPHERIC TEMPERATURE

The relationship between environmental conditions and UH-60 cockpit temperature (AD-A255918) p 69 N93-14090

ATOMIC STRUCTURE

Atomic structure and chemistry of human serum athumin p 200 A93-31628

ATROPHY

Eccentric exercise training as a countermeasure to non-weight-bearing soleus muscle atrophy p 78 A93-20033

Effects of insulin and exercise on rat hindlimb muscles p 78 A93-20036 after simulated microgravity Regional changes in muscle mass following 17 weeks p 93 A93-20039 of bed rest

A review of muscle atrophy in microgravity and during p 213 A93-30771 prolonged bed rest Ultrastructural and biochemical studies on muscle atrophy induced by suspension and suspension with denervation in lower limbs of rats

enervation in lower timbs of rats p 200 A93-31530 Validation of the use of the helium-neon laser in the medical rehabilitation of patients with atrophy p 248 A93-35228

Aminohydroxybutane bisphosphonate and clenbuterol prevent bone changes and retard muscle atroph p 271 A93-39703 respectively in tail-suspended rats Absence of a growth hormone effect on rat soleus p 272 A93-40548 atrophy during a 4-day spaceflight Myosin and troponin changes in rat soleus muscle after hindlimb suspension p 273 A93-41124

Quantitative EMG analysis in soleus and plantaris during p 326 A93-44176 hindlimb suspension and recovery Interaction of various mechanical activity models in regulation of myosin heavy chain isoform expression

p 327 A93-44184 Effect of hindlimb unweighting on single soleus fiber maximal shortening velocity and ATPase activity

p 377 A93-49294 Exercise during long term exposure to space: Value of p 82 N93-16807 exercise during space exploration Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis

p 222 N93-24763 [NASA-CR-193040] Growth factor involvement in tension-induced skeletal

muscle growth [NASA-CR-193023] p 282 N93-27113

ATROPINE

Effects of 2 mg and 4 mg atropine sulfate on the performance of U.S. Army helicopter pilots p 7 A93-10326

Advanced displays for military operations [AIAA PAPER 92-4243] p 28 p 28 A93-13350 ATTACKING (ASSAULTING)

Relating flying hours to aircrew performance: Evidence for attack and transport missions

[AD-A253988] p 25 N93-10719 ATTENTION

Influence of animation on dynamical judgments

ATTACK AIRCRAFT

p 180 A93-28692 Predicting individual differences in complex skill acquisition - Dynamics of ability determinants

p 181 A93-28731 Assessing pilot workload - Why measure heart rate, HRV p 168 A93-28741 and respiration? Visual and somesthetic influences on postural p 224 A93-32782 p 287 A93-40771 orientation in the median plane Cognitive predictors of vigilance Performance under dichoptic versus binocular viewing conditions - Effects of attention and task requirements

p 287 A93-40772 A computer simulation model for attention distribution p 340 A93-45323 and event generation Satiation or availability? Effects of attention, memory,

and imagery on the perception of ambiguous figures p 405 A93-55348 Enhanced performance using physiological feedback

p 130 N93-17816 [AD-A258006] Attention factors associated with head-up display and helmet-mounted display systems

p 235 N93-24001 [AD-A260204] Method of encouraging attention by correlating video game difficulty with attention level [NASA-CASE-LAR-15022-1] p 288 N93-28128

ATTITUDE (INCLINATION)

Development of a tactile perceived attitude transducer AD-A253724 AD-A253724 | p 25 N93-11081 Attitude awareness enhancements for the F-16 head-up display

LAD-A260280 L p 236 N93-24168 Symbology for head up and head down applications for highly agile fighter aircraft: To improve spatial awareness,

trajectory control, and unusual attitude recovery, part 1 p 318 N93-28857

Utility of a ghost horizon and climb/dive ladder line tapering on a head-up display [AD-A264401] p 353 N93-30167

The aircraft position tests: A computer generated process for acquisition of spatial orientation capability p 344 N93-31236

ATTITUDE CONTROL

HUD climb/dive ladder configuration and unusual p 185 A93-27129 attitude recovery Utility of a ghost horizon and climb/dive ladder line tapering on a head-up display LAD-A264401 I p 353 N93-30167

ATTITUDE INDICATORS

Design of a display system for a human pilot's supervisory tasks p 27 A93-11201 Up/down in (im)possible flight attitude indicators - Some effects of colour, shape and pattern p 185 A93-27128 Evaluation of conformal and body-axis attitude information for spatial awareness p 229 A93-30070 Symbology for head up and head down applications for highly agile fighter aircraft: To improve spatial awareness, trajectory control, and unusual attitude recovery, part 1

AUDIO FREQUENCIES

Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO

p 318 N93-28857

p 30 N93-10217 IAD-A2533931

Neuromagnetic investigation of cortical regions underlying short-term memory [AD-A261445] p 261 N93-26521

AUDIOLOGY

Electronystagmography and audio potentials in space fliaht p 9 A93-11675

AUDITORY DEFECTS

Some characteristics of the etiopathogenesis of hearing oss in aircraft personnel p 359 A93-45691 loss in aircraft personnel The influence of military low-altitude flight noise on the inner ear of the guinea pig. 1 - Hearing threshold measurements p 377 A93-49555

Measurement and evaluation of blast overpressure during F-15A crew station vulnerability assessment test [AD-A257152] p 104 N93-16033

AUDITORY PERCEPTION

Effects of sustained +Gz stress on BAEP in waked abbits p 10 A93-13531

Effects of +Gz stress on medium- and long-latency auditory evoked responses p 11 A93-13708

Subjective reactions and objective assessment of the auditory and ventilatory functions of the middle ear during changes in atmospheric pressure p 45 A93-15174

SUBJECT INDEX		AVIATION PSYCHOLOGY
The effects of hypoxia on auditory reaction time and	AUTOMATA THEORY	AUTONOMIC NERVOUS SYSTEM
P300 latency p 47 A93-16156 The effects of chronic hypoxia on human auditory system	Complex task performance as a basis for developing cognitive engineering guidelines in adaptive automation	Human autonomic responses to actual and simulated weightlessness p 85 A93-17540
sensitivity p 89 A93-18041	p 186 A93-27148	Effects of scopolamine on autonomic profiles underlying
Perceptual effects of synthetic reverberation on	AUTOMATIC CONTROL Kalman-filter-based machine vision for controlling	motion sickness susceptibility p 116 A93-24037
three-dimensional audio systems p 257 A93-36583 Some characteristics of the etiopathogenesis of hearing	free-flying unmanned remote vehicles	Carotid-cardiac baroreflex response and LBNP tolerance following resistance training p 164 A93-28696
loss in aircraft personnel p 359 A93-45691	p 135 A93-22916	Prediction of motion sickness susceptibility
Headphone localization of speech	Automation, authority and angst - Revisited p 185 A93-27127	p 403 A93-55940 Autogenic-feedback training - A treatment for motion
p 394 A93-52507 Spectral motion produces an auditory after-effect	Direct manipulation and intermittent automation in	and space sickness p 404 A93-55946
p 405 A93-55579	advanced cockpits [AD-A253814] p 32 N93-11784	New techniques for positron emission tomography in
Auditory processing of complex sounds across	Intelligent fault management for the Space Station active	the study of human neurological disorders (DE93-002098) p 95 N93-15900
frequency channels [AD-A253612] p 13 N93-10650	thermal control system p 32 N93-11930 Habitat automation p 33 N93-11976	Non-invasive evaluation of the cardiac autonomic
Auditory perception	Adaptive automation and human performance. 3: Effects	nervous system by PET [DE92-041077] p 96 N93-16441
[AD-A255061] p 23 N93-12469	of practice on the benefits and costs of automation shifts	Autonomic physiological data associated with simulator
Psychophysical analyses of perceptual representations [AD-A255432] p 58 N93-14510	AD-A254381 p 64 N93-12860	discomfort [NASA-CR-177609] p 222 N93-24738
Neuromagnetic investigations of cortical regions	Autonomous support for microorganism research in	AUTONOMY
underlying short-term memory [AD-A255788] p 58 N93-14646	space [NASA-CR-192062] p 83 N93-17780	Emergence of telerobotic control enhancement from research in machine autonomy p 183 A93-27028
Demodulation processes in auditory perception	Automation of closed environments in space for human	Incorporating robot vision in tele-autonomous systems
[AD-A255748] p 54 N93-15053	comfort and safety [NASA-CR-192045] p 138 N93-17971	p 184 A93-27031 Intelligent robotics capabilities of the teleautonomy
Multimodal interactions in sensory-motor processing [AD-A255780] p 59 N93-15067	Conceptual design of a fleet of autonomous regolith	testbed p 184 A93-27035
An automated version of the dichotic listening test:	throwing devices for radiation shielding of lunar habitats [NASA-CR-192030] p 139 N93-18018	Ground-based control of Space Station Freedom-based robots p 263 A93-35570
Hardware, software, and procedural details [AD-A258114] p 120 N93-17895	X Ray System, Lightweight Medical (XRSLM)	robots p 263 A93-35570 Conceptual design of a fleet of autonomous regolith
[AD-A258114] p 120 N93-17895 An analysis of a sustained flight operation training	[AD-A258159] p 123 N93-18295 Modeling the dynamics of mental workload and human	throwing devices for radiation shielding of lunar habitats [NASA-CR-192078] p 108 N93-17806
mission in Navy attack aircraft	performance in complex systems	[NASA-CR-192078] p 108 N93-17806 Architecture of autonomous systems
[AD-A258199] p 131 N93-18205 Classification of complex sounds	[AD-A258553] p 135 N93-19956	[NASA-CR-192974] p 266 N93-26047
[AD-A258405] p 122 N93-18223	Space biology initiative program definition review. Trade study 1: Automation costs versus crew utilization	Interactive and cooperative sensing and control for advanced teleoperation p 366 N93-32108
Evoked brain potentials as indicators of a central nervous	p 208 N93-23070	AUTOPSIES
impairment in a simulated saturation dive to 560 m [DLR-FB-92-14] p 219 N93-24093	An automated method for determining mass properties [AD-A259924] p 236 N93-24441	27 years armed forces aerospace pathology and toxicology in the Federal Republic of Germany:
The clearance test: A computer generated process for	Automated system for early breast cancer detection in mammograms p 253 N93-25568	Development, current status, trends and challenges
acquisition of auditive short term sensitivity p 343 N93-31234	Architecture of autonomous systems	p 126 N93-19696 AUTORADIOGRAPHY
Auditory spectro-temporal pattern analysis	[NASA-CR-192974] p 266 N93-26047 The ECLSS advanced automation project evolution and	Quantitative autoradiographic analysis of muscarinic
[AD-A264691] p 361 N93-31981 AUDITORY SENSATION AREAS	technology assessment p 312 N93-27723	cholinergic and GABAA (benzodiazepine) receptors in the forebrain of rats flown on the Soviet Biosatellite COSMOS
Simulation of excitatory/inhibitory interactions in single	Combat Automation for Airborne Weapon Systems: Man/Machine Interface Trends and Technologies	2044 p 156 A93-28743
auditory neurons [AD-A253614] p 50 N93-13252	AGARD-CP-520 p 317 N93-28850	Autoradiographic distribution and applied pharmacological characteristics of dextromethorphan and
AUDITORY SIGNALS	Operator and automation capability analysis: Picking the right team p 319 N93-28864	related antitissue/anticonvulsant drugs and novel
Acoustical and vibratory stimuli interdependencies and	System automation and pilot-vehicle-interface for	analogs [AD-A255607] p 54 N93-15009
their applications in simulation and cue synchronization [AIAA PAPER 93-3562] p 406 A93-52662	unconstrained low-altitude night attack p 320 N93-28867	AVAILABILITY Satiation or availability? Effects of attention, memory,
Virtual environment display for a 3D audio room	A vision system planner for increasing the autonomy	and imagery on the perception of ambiguous figures
simulation p 408 A93-53125 Super auditory localization for improved human-machine	of the Extravehicular Activity Helper/Retriever	p 405 A93-55348 AVIATION PSYCHOLOGY
interfaces	[NASA-CR-193301] p 365 N93-31844 AUTOMATIC FLIGHT CONTROL	Assessing for preflight predictors of airsickness
[AD-A254699] p 34 N93-12229 Auditory spectro-temporal pattern analysis	Pilot interaction with cockpit automation - Operational	p 8 A93-10335 Short-term retest reliability of an experimental U.S. Air
[AD-A264691] p 361 N93-31981	experiences with the Flight Management System p 189 A93-27455	Force pilot candidate selection test battery
AUDITORY STIMULI Spectral motion produces an auditory after-effect	AUTOMATIC PILOTS	p 56 A93-15661 The 'artful' decision maker - A framework model for
p 405 A93-55579	Performance consequences of automation-induced 'complacency' p 286 A93-39571	aeronautical decision making p 56 A93-15662
AUDITORY TASKS Performance differences in psychomotor and dichotic	An exploratory study of plan-view terrain displays for	A reappraisal of aging and pilot performance p 56 A93-15663
listening tests among landing craft air cushion vehicle	air carrier operations p 289 A93-39573 Modeling strategic behavior in human-automation	Predictive validity of an automated personality inventory
operator trainees p 177 A93-27174 Effects of terfenadine and diphenhydramine on brain	interaction - Why an 'aid' can (and should) go unused	for Air Force pilot selection p 179 A93-27452 The influence of flight experience on midair collision risk
activity and performance in a UH-60 flight simulator	p 394 A93-52502	perception p 180 A93-28707
[AD-A258012] p 119 N93-17817 An automated version of the dichotic listening test:	AUTOMATIC TEST EQUIPMENT Time stress measurement devices for enhancement of	On cockpit (crew) resource management p 223 A93-31490
Hardware, software, and procedural details	onboard bit performance p 144 N93-19762	Control of the development of occupationally important
[AD-A258114] p 120 N93-17895 AUGMENTATION	AUTOMATION Flight deck automation and pilot workload	qualities with the aim of improving flight-personnel training p 257 A93-35249
Acquisition and production of skilled behavior in dynamic	[SAE PAPER 921132] p 291 A93-41320	Influence of aging and practice on piloting tasks
decision-making tasks [NASA-CR-192361] p 181 N93-20908	Toward a flight deck automation philosophy for the Boeing High Speed Civil Transport	p 286 A93-39708 Flight leads and crisis decision-making
AUTOCATALYSIS	[SAE PAPER 921133] p 291 A93-41321	p 404 A93-55161
Chiral symmetry breaking in nonlinear autocatalytic reactions and the effect of external noise	Human performance in complex task environments: A	Human performance in complex task environments: A basis for the application of adaptive automation
p 269 A93-36564	basis for the application of adaptive automation [AD-A255067] p 35 N93-12486	[AD-A255067] p 35 N93-12486
Catalytic accretion of thermal heterocomplex molecules from amino acids in aqueous milieu p 354 A93-43793	Aircrew acceptance of automation in the cockpit	Assessment of morale in Turkish Air Force pilots with two clinical psychological tests p 133 N93-19660
Nucleotide analogs based on pentaerythritol - An	p 144 N93-19761 AUTOMOBILES	Human Factors Issues in Aircraft Maintenance and
hypothesis p 325 A93-43794 AUTOCORRELATION	The design and use of automotive crash test dummies	Inspection. Science, technology, and management: A program review
Spontaneous discovery and use of categorical	p 142 N93-19669 Upper interior head protection. Volume 1. The	[PB93-146975] p 234 N93-23647
structure (AD-A261658) p 260 N93-26364	development of a research test procedure	The five-factor personality model and naval aviation candidates
AUTOKINESIS	[PB93-113769] p 194 N93-21537	[AD-A260227] p 225 N93-24319
OPTOVERT: An AUSTROMIR 91 experiment - Orientational effects from optokinetic stimulation	Upper interior head protection. Volume 2: Fleet characterization and countermeasure evaluation	Field test of a computer-driven tool to measure psychological characteristics of aircrew
p 159 A93-26571	[PB93-113777] p 195 N93-21795	[AD-A264484] p 341 N93-30425
A free-fall flip-over response in rats after the flight onboard the Cosmos-936 biosatellite	A demonstration of motion base design alternatives for the National Advanced Driving Simulator	Computer-generated parallel tests for aptitude measurement in the selection of aviation operators
p 240 A93-35215	[NASA-TM-103881] p 236 N93-24490	[DLR-FB-92-29] p 343 N93-31229

The test memorization of symbols and numbers: A computer generated test for visual sensitivity p 343 N93-31233 The clearance test: A computer generated process for acquisition of auditive short term sensitivity p 343 N93-31234 The concentration loading test system: A computer generated process for acquisition of attentiveness control p 344 N93-31235 The aircraft position tests: A computer generated process for acquisition of spatial orientation capability p 344 N93-31236 The cube rotation test: A computer generated process for acquisition of mental spatial manipulator capability p 344 N93-31237 The PARAT tests as examination system p 344 N93-31238 AVIONICS Training for avionics evaluation [AIAA PAPER 92-4068] p 24 A93-11254 Keeping the pilot in the loop p 29 A93-13413 [DE92-017673] Advanced civil airliner cockpit research at RAE p 29 A93-13416 Looks can kill --- helmet mounted displays, military p 231 A93-31626 avionics Agent-based pilot-vehicle interfaces - Concept and p 262 A93-34986 prototype Performance consequences of automation-induced complacency p 286 A93-39571 Failure mode workload theory and planning p 349 A93-42848 Human-centered automation and AI - Ideas, insights, and issues from the Intelligent Cockpit Aids research p 407 A93-52764 KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] p 30 N93-10713 Management of avionics data in the cockpit p 147 N93-19777 Equipment, more or less ready to be used in helicopters p 148 N93-19785 AXES OF ROTATION Factors influencing perceived angular velocity p 97 Á93-17800 Hair cell tufts and afferent innervation of the bullfrog p 329 A93-44931 crista ampullaris Nerves and tissue repair [AD-A255299] p 53 N93-14535 Extrathalmic modulation of cortical function [AD-A2554401 p 53 N93-14782 Biophysical and biochemical mechanisms in synaptic transmitter release IAD-A2563401 p 55 N93-15198 AZO COMPOUNDS Quantitative autoradiographic analysis of muscarinic cholinergic and GABAA (benzodiazepine) receptors in the forebrain of rats flown on the Soviet Biosatellite COSMOS p 156 A93-28743 An evaluation of B-1B pilot performance during simulated BALANCING instrument approaches with and without status information p 353 N93-29888 [AD-A263874] Investigation of effects of 60-Hz electric and magnetic fields on operant and social behavior and on the

BABOONS

neuroendocrine system of nonhuman primates: Neuroendocrine portion of Experiment 4 IDE92-0409551

p 95 N93-16166 **BACILLUS**

Responses of Bacillus subtilis spores to space environment - Results from experiments in space p 268 A93-36556

BACK INJURIES

Fractures of the vertebral column after ejection

p 46 A93-15575

Comment on 'Optimum vehicle acceleration profile for minimum-human injury' by C. P. Hatsell

p 392 A93-49607 The US Navy Healthy Back Program: Effect on back knowledge among recruits p 121 N93-18210

IAD-A2583681 BACKSCATTERING

A fiber optic probe for the detection of cataracts p 254 N93-25593

BACTERIA

The effects of growth temperature on the methyl sterol and phospholipid fatty acid composition of Methylococcus p 37 A93-14121 capsulatus (Bath)

Magnetic domain state and coercivity predictions for biogenic greigite (Fe3S4) - A comparison of theory with p 38 A93-16481 magnetosome observations

Structure of a molecular chaperone from a thermophilic archaebacterium p 151 A93-25821 Multiple evolutionary origins of magnetotaxis in

p 153 A93-27799 bacteria Roles of water molecules in bacteria and viruses

p 243 A93-36555 Ferrous iron oxidation by anoxygenic phototrophic p 271 A93-39280

Microfossils of the Early Archean Apex chert - New p 272 A93-40308 evidence of the antiquity of life aqueous organic p 397 A93-53291 Hydrothermal dehydration of compounds

Microbiological analysis of debris from STS-42 IML-1 by direct plating of rinse waters

p 6 N93-12174 [NASA-TM-108375] Biological conversion of synthesis gas p 40 N93-13269

Biofilm ecology of bioluminescent bacteria p 42 N93-14532 (AD-A255282)

Primary charge separation in isolated photosystem 2 reaction centers IDE92-0411281 p.82 N93-17189

Rapid susceptibility testing of mycobacterium avium complex and mycobacterium tuberculosis isolated from AIDS patients

INASA-CR-1923821 p 172 N93-20736 Intracellular targeting of the Yersinia YopE cytotoxin in mammalian cells induces actin microfilament disruption

p 275 N93-27989 | FOA-B-40420-4.4 | Plasmid encoded virulence of Yersinia p 275 N93-28199 [FOA-B-40419-4.4]

Characterization and classification of strains of Francisella tularensis isolated in the central Asian focus of the Soviet Union and in Japan

p 275 N93-28200 IFOA-B-40421-4.41 Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia

p 275 N93-28212 [FOA-B-40422-4.4] Regulation of alternative CO2 fixation pathways in procaryotic and eucaryotic photosynthetic organisms

[DE93-012109] p 276 N93-29181 Marine microbial production of dimethylsulfide from

dissolved dimethylsulfoniopropionate INASA-CR-1932781 p 330 N93-30665

Microbiological test results of the environmental control and life support systems vapors compression distillation subsystem recycle tank components following various

p 359 N93-32354 INASA-CR-1925701 Optimization of 15 parameters influencing the long-term survival of bacteria in aquatic systems

NASA-CR-192571 p 359 N93-32365

BACTERICIDES

Continuous monitoring of effluent iodine levels of Space Station water using solid state technology

p 299 A93-41435 [SAE PAPER 921265]

BAGGAGE

Recognition of partially occluded threat objects using p 142 N93-19466 the annealed Hopefield network

Balance and gait analysis after 30 days -6 deg bed rest Influence of lower-body negative-pressure sessions

p 48 A93-16161 Alterations of proprioceptive function in the weightless p 86 A93-17549

Postural stabilization on a moving platform oscillating p 252 A93-35497 at high frequencies

BARORECEPTORS

Influence of ten-day head-down bedrest on human carotid baroreceptor-cardiac reflex function

p 161 A93-28678 Carotid-cardiac baroreflex response and LBNP tolerance following resistance training p 164 A93-28696 Enhanced carotid-cardiac baroreflex response and elimination of orthostatic hypotension 24 hours after acute p 216 A93-32781 exercise in paraplegics

The state of cardiac activity control in humans during cyclic changes of barometric pressure in a hermetic chamber p 251 A93-35257 Response of genioglossus EMG activity to passive tilt

p 279 A93-41118 Baroreflex function and cardiac structure with moderate endurance training in normotensive men

p 332 A93-44182

BAROTRAUMA

Barotrauma in Boeing 737 cabin crew p 278 A93-39706

Bar-holding prosthetic limb INASA-CASE-MFS-28481-1 | p 70 N93-14870 BASALT

Formation of reduced carbonaceous matter in basalts and xenoliths - Reaction of C-O-H gases on olivine crack surfaces --- space biological evolution

p 411 A93-53286

BEAT FREQUENCIES

Carbon monoxide exposure of subjects with documented cardiac arrhythmias [PB93-179943]

BED REST

p 337 N93-30890 Contractile properties of the calf triceps muscle in

humans exposed to simulated weightlessness p 45 A93-15168

Changes of REG during 4h head-down bed-rest p 46 A93-16075 Effects of acute exercise on attenuated vagal barorellex p 48 A93-16160

function during bed rest Balance and gait analysis after 30 days -6 deg bed rest - Influence of lower-body negative-pressure sessions p 48 A93-16161

Orthostatic function during a stand test before and after head-up or head-down bedrest p 84 A93-17530 Drug effects on orthostatic intolerance induced by bedrest p 86 A93-17544

A physiological signal acquisition and processing system p 103 A93-19998 for bed-rest laboratory

Regional changes in muscle mass following 17 weeks n 93 A93-20039 of bed rest Effect of prolonged antiorthostatic bed rest hypokinesia

on functional properties of the neuromuscular system in humans p 116 A93-23151 Response of the circadían system to 6 deg head-down

p 117 A93-24045 tilt bed rest Response of adrenergic receptors to 10 days head-down p 162 A93-28679

Cardiovascular response to lower body negative pressure before, during, and after ten days head-down p 162 A93-28681 Cardiopulmonary function during 10 days of head-down

p 162 A93-28683 tilt bedrest Effect of head-down tilt bedrest (10 days) on lymphocyte p 163 A93-28684 reactivity

Effect of head-down bedrest on blood/plasma density fter intravenous fluid load p 163 A93-28687 Head-down tilt bedrest: HDT'88 - An international after intravenous fluid load

collaborative effort in integrated systems physiology p 164 A93-28689

Magnetic Resonance Imaging evaluation of lower limb muscles during bed rest - A microgravity simulation model p 212 A93-30280 A review of muscle atrophy in microgravity and during

p 213 A93-30771 prolonged bed rest Body fluid alterations during head-down bed rest in men at moderate altitude p 251 A93-35493

Effects of prolonged head-down bed rest on physiological responses to moderate hypoxia p 251 A93-35494

Orthostatic intolerance during a 13-day bed rest does not result from increased leg compliance

p 280 A93-41119 Performance and mood-state parameters during 30-day 6 deg head-down bed rest with exercise training

p 281 A93-41169 Evaluation of spontaneous baroreflex response after 28 p 386 A93-52404 days head down tilt bedrest Effect of aerobic capacity on Lower Body Negative

Pressure (LBNP) tolerance in females INASA-TP-32981 n 128 N93-20318

BEHAVIOR

Dynamics of normalization of some behavioral and neurochemical disturbances in rats caused by the deprivation of the paradoxical sleep stage

p 111 A93-23074 Combined effect of head-down tilt and gamma rays on

the higher nervous activity of rats p 242 A93-35262 Investigation of effects of 60-Hz electric and magnetic fields on operant and social behavior and on the neuroendocrine system of nonhuman primates, part 2 [DE92-040153] p 41 N93-13503

Investigation of effects of 60-Hz electric and magnetic fields on operant and social behavior and on the neuroendocrine system of nonhuman primates, part 1 p 41 N93-13520 [DE92-040152]

How do zooplankton feed? A critical microgravity p 158 N93-21097 experiment

Gravity as a factor in the orientation and vertical

p 158 N93-21098 migration of marine zooplankton Studying the effects of microgravity on lower vertebrate development and behavior p 158 N93-21099

Japanese treefrog experiment onboard the Space Station Mir p 210 N93-24402

Investigation of effects of 60-Hz electric and magnetic fields on operant and social behavior and on the neuroendocrine system of nonhuman primates p 211 N93-24455 IDE93-0076781

SUBJECT INDEX		BIOASTRONAUTICS
BENZENE	BIOACOUSTICS	Alteration in human mononuclear leucocytes following
Molecular biology of anaerobic aromatic	Classification of complex sounds	space flight p 165 A93-28705
biodegradation [AD-A255213] p 42 N93-13863	[AD-A258405] p 122 N93-18223 Neuromagnetic investigation of cortical regions	Thermoregulatory responses of rhesus monkeys during
Anaerobic microbial transformation of aromatic	underlying short-term memory	spaceflight p 154 A93-28706 Skeletal muscle responses to unloading with special
hydrocarbons and mixtures of aromatic hydrocarbons and	[AD-A261445] p 261 N93-26521	reference to man p 166 A93-28718
halogenated solvents	BIOASSAY	Cardiovascular physiology - Effects of microgravity
[AD-A255696] p 42 N93-14557	Heterogeneity of rat pituitary prolactin cells -	p 166 A93-28719
BERYLLIUM ALLOYS Popullium toxinity An undata p. 104 A02 00770	Relationships among location, hormone assay and estrous cycle stage p 358 A93-46606	A method of multivariate analysis of data in the study
Beryllium toxicity - An update p 104 A93-20779 BERYLLIUM COMPOUNDS	cycle stage p 358 A93-46606 Rapid susceptibility testing of mycobacterium avium	of the effects of space flight factors on the rat brain neuron structure p 155 A93-28727
Beryllium toxicity - An update p 104 A93-20779	complex and mycobacterium tuberculosis isolated from	Effect of dexamethasone on proliferating osteoblasts -
BEVERAGES	AIDS patients	Inhibition of prostaglandin E2 synthesis, DNA synthesis,
Field trial of caffeine on physical performance at altitude:	[NASA-CR-192382] p 172 N93-20736	and alterations in actin cytoskeleton
An attempt to overcome the challenge [AD-A264260] p 337 N93-30894	Characterization and classification of strains of Francisella tularensis isolated in the central Asian focus	p 155 A93-28728 Sperm motility under conditions of weightlessness
BIAS	of the Soviet Union and in Japan	p 156 A93-28730
Relation between perception of vertical axis rotation and	[FOA-B-40421-4.4] p 275 N93-28200	In vivo testing confirms a blunting of the human
vestibulo-ocular reflex symmetry p 214 A93-32176	BIOASTRONAUTICS	cell-mediated immune mechanism during space flight
BIBLIOGRAPHIES Bibliographic guide to publications in aerospace	The space life sciences strategy for the 21st century p 1 A93-10636	p 167 A93-28732
medicine and related topics p 252 A93-35500	Electronystagmography and audio potentials in space	Neurology of microgravity and space travel p 168 A93-28735
Aerospace medicine and biology: A continuing	flight p 9 A93-11675	Simulated weightlessness and bone metabolism -
bibliography with indexes (supplement 365)	Results of experiments on the exploration of genetic	Gravitational stimulation enhances insulin sensitivity
[NASA-SP-7011(365)] p 12 N93-10075 Aerospace medicine and biology: A continuing	effect of rocket flight factors with Drosophila melanogaster p 1 A93-11691	p 168 A93-28736
bibliography with indexes (supplement 360)	Human support for Mars exploration - Issues and	Health in space - And on Earth p 156 A93-28738 Vestibular problems in diving and in space
[NASA-SP-7011(360)] p 12 N93-10076	approaches p 27 A93-12077	p 169 A93-28747
Aerospace medicine and biology: A continuing	Effects of simulated microgravity (HDT) on blood	Vestibular ataxia following shuttle flights - Effects of
bibliography with indexes (supplement 364) [NASA-SP-7011(364)] p 12 N93-10077	fluidity p 44 A93-14972 Metabolic changes observed in astronauts	microgravity on otolith-mediated sensorimotor control of posture p 169 A93-28750
Aerospace medicine and biology: A continuing	p 84 A93-17535	Oxygen tension and water-soluble products of lipid
bibliography with indexes (supplement 366)	Pharmacologic considerations for Shuttle astronauts	peroxidation in blood of volunteers in hypobaric
[NASA-SP-7011(366)] p 12 N93-10079	p 85 A93-17537 Intraocular pressure in microgravity	hyperoxial p 169 A93-28751
Aerospace medicine and biology: A continuing bibliography with indexes (supplement 367)	p 85 A93-17539	An assessment of the deflecting effect on human movement due to the Coriolis inertial forces in a space
[NASA-SP-7011(367)] p 12 N93-10080	Human autonomic responses to actual and simulated	vehicle p 170 A93-28758
Aerospace medicine and biology: A continuing	weightlessness p 85 A93-17540	Cancer risk assessment with intermittent exposure
bibliography with indexes (supplement 368)	Pharmacodynamic aspects of spaceflight p 73 A93-17541	p 171 A93-28766
NASA-SP-7011(368) p 53 N93-14603 Publications of the Space Physiology and	Optimal sampling theory and population modelling -	Image technology and information analysis of bone change with gravitational exposure p 378 A93-49177
Countermeasures Program, Neuroscience Discipline:	Application to determination of the influence of the	Cerebral blood flow velocity in humans exposed to 24
1980-1990	microgravity environment on drug distribution and	h of head-down tilt p 381 A93-49295
[NASA-CR-4476] p 55 N93-15583 Aerospace medicine and biology: A continuing	elimination p 85 A93-17542 Effects of gravity on gastric emptying, intestinal transit,	Mental rotation - A key to mitigation of motion sickness
bibliography with indexes (supplement 370)	and drug absorption p 85 A93-17543	in the virtual environments? p 387 A93-49404 Main medical results of extended flights on Space
[NASA-SP-7011(370)] p 121 N93-18108	Acute hemodynamic response to weightlessness during	Station Mir in 1986-1990 p 386 A93-52401
Publications of the Space Physiology and	parabolic flight p 86 A93-17547	Evaluation of spontaneous baroreflex response after 28
Countermeasures Program, Cardiopulmonary Discipline: 1980-1990	Changes in total body water during spaceflight p 86 A93-17548	days head down tilt bedrest p 386 A93-52404 Human locomotion and workload for simulated lunar and
[NASA-CR-4475] p 123 N93-18376	Alterations of proprioceptive function in the weightless	Martian environments p 394 A93-52406
Aerospace medicine and biology: A cumulative index	environment p 86 A93-17549	Medical concerns for exploration-class missions
to a continuing bibliography (supplement 371) [NASA-SP-7011(371)] p 172 N93-20889	Cardiovascular adaptation to spaceflight p 86 A93-17550	p 386 A93-52409 Space and cognition - The measurement of behavioral
Aerospace medicine and biology: A continuing	Echocardiographic evaluation of the cardiovascular	functions during a 6-day space mission
bibliography with indexes (supplement 372)	effects of short-duration spaceflight p 87 A93-17551	p 405 A93-55164
[NASA-SP-7011(372)] p 172 N93-21044	Hypokinesia and weightlessness: Clinical and physiologic aspects Book	Aerospace medicine and biology: A continuing
Bibliography of the Biosciences Division: 1986 to present	ISBN 0-8236-2415-3 p 87 A93-17897	bibliography with indexes (supplement 365) [NASA-SP-7011(365)] p 12 N93-10075
[DCIEM-92-20] p 209 N93-23343	Track structure model for damage to mammalian cell	Aerospace medicine and biology: A continuing
Aerospace medicine and biology: A continuing	cultures during solar proton events p 75 A93-18073	bibliography with indexes (supplement 360)
bibliography with indexes (supplement 373)	Modification of water and electrolyte metabolism during head-down tilting by hypoglycemia in men	[NASA-SP-7011(360)] p 12 N93-10076
[NASA-SP-7011(373)] p 256 N93-26945 An annotated bibliography of research involving women.	p 92 A93-20029	Aerospace medicine and biology: A continuing bibliography with indexes (supplement 364)
conducted at the US Army Research Institute of	Eccentric exercise training as a countermeasure to	[NASA-SP-7011(364)] p 12 N93-10077
Environmental Medicine	non-weight-bearing soleus muscle atrophy p 78 A93-20033	Aerospace medicine and biology: A continuing
[AD-A265497] p 360 N93-31917 BINAURAL HEARING	Conference on Correlations of Aging and Space Effects	bibliography with indexes (supplement 366) {NASA-SP-7011(366)} p 12 N93-10079
AUDIMIR - Directional hearing at microgravity	on Biosystems, Oct. 30-Nov. 1, 1989, Proceedings	Aerospace medicine and biology: A continuing
p 159 Á93-26570	Book p 79 A93-20651	bibliography with indexes (supplement 367)
Auditory processing of complex sounds across	Cardiovascular physiology in space flight p 93 A93-20654	[NASA-SP-7011(367)] p 12 N93-10080
frequency channels [AD-A253612] p 13 N93-10650	Effects of head down tilt on hepatic circulation and	Space flight and immune system p 14 N93-11284 An overview of gravitational physiology
Simulation of excitatory/inhibitory interactions in single	metabolism in conscious dogs p 80 A93-20899	[NASA-TM-102849] p 35 N93-12319
auditory neurons	Intracardiac hemodynamics in man during short periods	Occupational ergonomics in space p 68 N93-14013
[AD-A253614] p 50 N93-13252 BINDING	of head-down and head-up tilt p 117 A93-24044 Preliminary analysis of sensory disturbances and	Aerospace medicine and biology: A continuing
The binding and reactions of nucleotides and	behavioral modifications of astronauts in space	bibliography with indexes (supplement 368) [NASA-SP-7011(368)] p 53 N93-14603
polynucleotides on iron oxide hydroxide polymorphs	p 130 A93-25207	STS-40 Spacelab Life Sciences 1 (SLS-1): The first
p 325 A93-43795	Study design for microgravity human physiology	dedicated spacelab life sciences mission
BINOCULAR VISION Two types of occlusion cues for the perception of 3-D	experiments p 118 A93-25208	[NASA-TM-108034] p 80 N93-15823 Aerospace medicine and biology: A continuing
illusory objects in binocular fusion p 222 A93-30239	COGIMIR - A study of cognitive functions in microgravity p 174 A93-26569	bibliography with indexes (supplement 370)
Human stereopsis p 223 A93-30456	Influence of microgravity on immune system and genetic	[NASA-SP-7011(370)] p 121 N93-18108
Human behavior in virtual environments	information p 160 A93-26572	Publications of the Space Physiology and
p 233 A93-33447 Performance under dichoptic versus binocular viewing	Pictorial communication in virtual and real	Countermeasures Program, Cardiopulmonary Discipline: 1980-1990
conditions - Effects of attention and task requirements	environments	[NASA-CR-4475] p 123 N93-18376
p 287 A93-40772	[ISBN 0-74840-008-7] p 182 A93-26896 Effects of antiorthostatic suspension and corticosterone	Cardiopulmonary discipline science plan
Visualization and modeling of factors influencing visibility in computer-aided crewstation design	on macrophage and spleen cell function	[NASA-TM-108040] p 125 N93-19648 Neuroscience discipline science plan
[SAE PAPER 921135] p 292 A93-41323	p 153 A93-28693	[NASA-TM-108041] p 128 N93-19882
Coordinated action in 3-D space	Cytokine secretion by immune cells in space	Regulatory physiology discipline science plan
[AD-A261418] p 261 N93-26449	p 153 A93-28694	[NASA-TM-108038] p 115 N93-19891
Intermediate levels of visual processing [AD-A264117] p 335 N93-30192	Variable lymphocyte responses in rats after space flight p 154 A93-28704	Musculoskeletal discipline science plan [NASA-TM-108039] p 128 N93-19892
, , , , , , , , , , , , , , , , , , , ,	g :	, , , , , , , , , , , , , , , , , , , ,

Effect of aerobic capacity on Lower Body Negative	Biological conversion of synthesis gas culture	Biomagnetic localization from transient quasi-stati
Pressure (LBNP) tolerance in females	development	events
[NASA-TP-3298] p 128 N93-20318 Physiological responses to wearing the space shuttle	[DE92-001279] p 6 N93-12482 Molecular biology of anaerobic aromatic	DE93-007328 p 253 N93-2518 BIOENGINEERING
launch and entry suit and the prototype advanced crew	Molecular biology of anaerobic aromatic biodegradation	Biomedical engineering - A means to add new dimension
escape suit compared to the unsuited condition	[AD-A255213] p 42 N93-13863	to medicine and research p 190 A93-2871
INASA-TP-32971 p 149 N93-20319	BIODYNAMICS	Hazard and risk assessment for surface component
Aerospace medicine and biology: A cumulative index	A study of biological effects and characteristics of	of a lunar base Controlled Ecological Life Suppor
to a continuing bibliography (supplement 371) [NASA-SP-7011(371)] p 172 N93-20889	dynamic responses of organism on landing impact	System SAE PAPER 921285 p 302 A93-4145
Aerospace medicine and biology: A continuing	p 10 A93-13533	Advanced life support systems in lunar and Martia
bibliography with indexes (supplement 372)	Army cockpit delethalization program p 61 A93-15419	environments utilizing a higher plant based engineerin
INASA-SP-7011(372) p 172 N93-21044	An improved simulation based biomechanical model to	paradigm
Life sciences utilization of Space Station Freedom p 205 N93-22622	estimate static muscle loadings p 160 A93-27172	[SAE PAPER 921286] p 302 A93-4145 Intracellular proteins produced by mammalian cells i
Life sciences recruitment objectives	An assessment of the deflecting effect on human	response to environmental stress p 328 A93-4492
p 205 N93-22623	movement due to the Coriolis inertial forces in a space	BIOFEEDBACK
Biomedical Monitoring and Countermeasures Facility	vehicle p 170 A93-28758	'Screening-Controlling' Psychological Selection System
p 205 N93-22624	Development of the Hermes EVA Space Suit Glove	for Air Force pilot cadet p 222 A93-3044
Two techniques for measuring locomotion impact forces during zero G	[SAE PAPER 921256] p 299 A93-41426 Development of a 500 hPa shoulder joint for the	Autogenic-feedback training - A treatment for motion and space sickness p 404 A93-5594
INASA-TP-3305 p 217 N93-23410	European EVA Space Suit System	BIOGENY
SETI in Europe p 237 N93-23908	[SAE PAPER 921257] p 299 A93-41427	To the stars with the cytoskeleton? p 1 A93-1119
Aerospace medicine and biology: A continuing	Intramuscular pressure and electromyography as	BIOGEOCHEMISTRY
bibliography with indexes (supplement 373)	indexes of force during isokinetic exercise	Preservation of biological information in thermal spring
[NASA-SP-7011(373)] p 256 N93-26945 BIOCHEMISTRY	p 380 A93-49291	deposits - Developing a strategy for the search for fossilite on Mars p 197 A93-2837
The effects of growth temperature on the methyl sterol	The effect of variable seat back angles on human response to # Gz impact accelerations	Planetary Biology and Microbial Ecology: Molecula
and phospholipid fatty acid composition of Methylococcus	[AD-A250673] p 31 N93-11559	Ecology and the Global Nitrogen cycle
capsulatus (Bath) p 37 A93-14121	Astronaut candidate strength measurement using the	[NASA-CR-4497] p 269 N93-26157
Clinical and diagnostic requirements - Biochemical	Cybex 2 and the LIDO Multi-Joint 2 dynamometers	BIOGRAPHY
exploration of amino acid metabolism, tRNA turnover and lymphocyte activation p 49 A93-17442	[NASA-CR-185679] p 34 N93-12195	The efficacy of biographical inventory data in predicting early attrition in naval aviation officer candidate training
Comets and the formation of biochemical compounds	Methodology issues concerning the accuracy of kinematic data collection and analysis using the ariel	[AD-A258025] p 131 N93-17919
on the primitive earth - A review p 109 A93-17977	performance analysis system	BIOINSTRUMENTATION
Some biochemical and functional characteristics of body	[NASA-CR-185689] p 34 N93-12211	Biochemically active layers for selective materia
state during multihour operator activity under extreme	Is axial loading a primary mechanism of injury to the	detection sensors
conditions p 161 A93-27686 Ultrastructural and biochemical studies on muscle	lower limb in an impact aircraft accident?	[MBB-Z-0440-92-PUB] p 158 N93-20959 The challenge of biodetection for screening persons
atrophy induced by suspension and suspension with	p 125 N93-19664	carrying explosives p 159 N93-21931
denervation in lower limbs of rats p 200 A93-31530	Design/development of an enhanced biodynamic manikin p 142 N93-19667	Explosives search dogs p 159 N93-21933
Some biochemical properties of an acyclic	The design and use of automotive crash test dummies	Biomedical Monitoring and Countermeasures Facility
oligonucleotide analogue - A plausible ancestor of the	p 142 N93-19669	p 205 N93-22624
DNA? p 269 A93-36560	An improved anthropometric test device	Transcutaneous analyte measuring methods
Chiral-symmetry-breaking in nonequilibrium chemical systems - The racemization influence	p 143 N93-19670	[AD-A262861] p 333 N93-29509 Acquisition of physiological data during G-induced Loss
p 269 A93-36563	A new instrumentation system for measuring the dynamic response of the human head/neck during impact	of Consciousness (G-LOC)
Interdisciplinary research and training program in the	acceleration p 143 N93-19672	[AD-A264492] p 335 N93-30400
plant sciences	Microcomputer based software for biodynamic	Prevention of cumulative trauma disorders
[DE92-015919] p 5 N93-10835	simulation p 196 N93-22191	[PB93-188332] p 338 N93-31138
Physiological analyses of the afferents controlling brain	Materials dispersion and biodynamics project research	BIOLOGICAL EFFECTS Free radical attack - Biological test for human resistance
neurochémical systems [AD-A253185] p 14 N93-11146	p 207 N93-22651 An automated method for determining mass properties	capability p 39 A93-17434
A physico-chemical study of some areas of fundamental	[AD-A259924] p 236 N93-24441	Can the adult skeleton recover lost bone?
significance to biophysics	Evaluation of lens distortion errors in video-based motion	p 93 A93-20656
[DE92-019917] p 40 N93-13034	analysis	Effects of error-proofing and
A physico-chemical study of some areas of fundamental	[NASA-TP-3266] p 258 N93-25736	chemical/biological/radiation protective glove use or
significance to biophysics	EVA Glove Research Team (NASA-CR-193014) p 313 N93-27847	touch panel operation p 186 A93-27152
DE92-019916 p 40 N93-13083	Anthropometric survey of the astronaut applicants and	On the biological effects of cosmic rays - Epidemiologica studies p 239 A93-34858
Biophysical and biochemical mechanisms in synaptic transmitter release	astronauts from 1985 to 1991	Effect of an attenuated geomagnetic field on the cellular
[AD-A256340] p 55 N93-15198	[NASA-RP-1304] p 321 N93-29324	composition of the epithelial-spermogenous layer of rai
Biochemically active layers for selective material	Visualization techniques for analyzing control of human movement: Affine mappings between multi-dimensional	testes p 240 A93-35229
detection sensors	spaces p 353 N93-30204	Possible biological significance of the curvature of
[MBB-Z-0440-92-PUB] p 158 N93-20959	Prevention of cumulative trauma disorders	equipotential surfaces of gravity-force tidal variations p 324 A93-43025
Improved inhalation technology for setting safe exposure	[PB93-188332] p 338 N93-31138	•
levels for workplace chemicals p 174 N93-22164 Primary events in olfactory reception	Transmission of vibration through the human body to	The internal dynamics of slowly rotating biological systems p 375 A93-49208
[AD-A260562] p 255 N93-25944	the head: A summary of experimental data [ISVR-TR-218] p 361 N93-32237	Some qualitative and quantitative aspects of the
The role of pyridoxine as a countermeasure for in-flight	BIOELECTRIC POTENTIAL	fast-rotating clinostat as a research tool for effects of
loss of lean body mass p 255 N93-26068	New technologies for in-flight pasteless bioelectrodes	weightlessness on biological objects
Characterization and classification of strains of	p 289 A93-41174	p 375 A93-49209
Francisella tularensis isolated in the central Asian focus	Comparative analytical study of evoked and event	Centrifuges - Their development and use in gravitational
of the Soviet Union and in Japan	related potentials as correlates of cognitive processes [AD-A261388] p 261 N93-26446	biology p 376 A93-49210
[FOA-B-40421-4.4] p 275 N93-28200	An assessment of peripheral nerve damage in the rat	How well does the clinostat mimic the effect of microgravity on plant cells and organs?
Biophysical and biochemical mechanisms in synaptic transmitter release	following non-freezing cold exposure: An	p 376 A93-49213
[AD-A264829] p 336 N93-30613	electrophysiological and histopathological examination	Intermittent cold exposure causes a muscle-specific shift
Spontaneous regulating mechanisms that may have led	[AD-A264293] p 331 N93-30818	in the fiber type composition in rats p 378 A93-52618
to the origin of life	BIOELECTRICITY Infraslow bioelectric activity of the monkey's brain in	Aerospace medicine and biology: A continuing
[DE93-603677] p 331 N93-31161	the development of the high-pressure neural syndrome	bibliography with indexes (supplement 365)
BIOCONVERSION	p 75 A93-18286	[NASA-SP-7011(365)] p 12 N93-10075
Biological conversion of synthesis gas culture	Spontaneous and evoked activity of neurons in the	Aerospace medicine and biology: A continuing bibliography with indexes (supplement 360)
development (DE92-001279) p 6 N93-12482	parietal associative cortex of cats during motion	[NASA-SP-7011(360)] p 12 N93-10076
Biological conversion of synthesis gas	sickness p 239 A93-35211 The central nervous connections involved in motion	Aerospace medicine and biology: A continuing
[DE92-017673] p 40 N93-13269	induced emesis p 399 A93-55931	bibliography with indexes (supplement 364)
Introductions to the Proceedings of the Fourteenth	An introduction to the information processing	[NASA-SP-7011(364)] p 12 N93-10077
Symposium on Biotechnology for Fuels and Chemicals	components of the brain	Aerospace medicine and biology: A continuing
[DE93-006235] p 276 N93-28890	[RSRE-MEMO-4350] p 25 N93-10979	bibliography with indexes (supplement 366)
BIODEGRADATION	Explosives search dogs p 159 N93-21933	[NASA-SP-7011(366)] p 12 N93-10079 Aerospace medicine and biology: A continuing
Biodeterioration of materials in water reclamation systems	Comparison of total body water estimates from 0-18 and bioelectrical response prediction equations	Aerospace medicine and biology: A continuing bibliography with indexes (supplement 367)
19AE DADED 0212111 n 203 A93.41473	INASA.TP.32991 n 218 N93-23734	INASA-SP-7011/367) 1 p.12 N93-10080

SUBJECT INDEV S

SUBJECT INDEX		BIOPHYSICS
Understanding mechanisms of carcinogenesis using rat	Photo and thermal reactions of ferrous hydroxide	A simple computational model of center-surround
tracheal epithelial cells in vitro	formation of hydrogen in Archaean ocean relevant to	receptive fields in the retina
[DE92-013510] p 13 N93-10626 The potential effects of concurrent increases in	chemical origin of life p 269 A93-36561 Some proteins keep 'living fossil' pre-sequence	[AD-A264723] p 336 N93-30515 BIOLOGY
temperature, CO2 and O3 on net photosynthesis, as	p 244 A93-36562	Achieving the promise of the bioscience revolution: The
mediated by rubisCO DE92-019411 p 5 N93-11630	Chiral symmetry breaking in nonlinear autocatalytic reactions and the effect of external noise	role of the Federal Government [PB93-139970] p 244 N93-25457
Radiation physics, biophysics, and radiation biology	p 269 A93-36564	BIOLUMINESCENCE
[DE92-013673] p 6 N93-12266 Establishing laboratory standards for biological flight	Microfossils of the Early Archean Apex chert - New evidence of the antiquity of life p 272 A93-40308	Biotilm ecology of bioluminescent bacteria [AD-A255282] p 42 N93-14532
experiments	Revision of the Wind River faunas, early Eccene of	BIOMAGNETISM
[NASA-CR-184402] p 40 N93-12901 Effects of spaceflight on the proliferation of jejunal	central Wyoming. IX - The oldest known hystricomorphous rodent (Mammalia: Rodentia) p 328 A93-44903	A weighted iterative algorithm for neuromagnetic imaging
mucosal cells '	Aqueous high-temperature and high-pressure organic	DE92-040244 p 51 N93-13522
[NASA-CR-191303] p 51 N93-13449 Investigation of effects of 60-Hz electric and magnetic	geochemistry of hydrothermal vent systems p 397 A93-53285	Neuromagnetic investigations of cortical regions underlying short-term memory
fields on operant and social behavior and on the	The violent environment of the origin of life - Progress	[AD-A255788] p 58 N93-14646
neuroendocrine system of nonhuman primates, part 2 DE92-040153 p.41 N93-13503	and uncertainties p 412 A93-53292 Motion sickness and evolution p 399 A93-55930	Sensory sensitivities and discriminations and their roles in aviation
Investigation of effects of 60-Hz electric and magnetic	Self-programming of matter and the evolution of	[AD-A259742] p 224 N93-23479
fields on operant and social behavior and on the neuroendocrine system of nonhuman primates, part 1	proto-biological organizations [DE92-015244] p 5 N93-10628	Biomagnetic localization from transient quasi-static events
[DE92-040152] p 41 N93-13520	Hydrothermal organic synthesis experiments	[DE93-007328] p 253 N93-25186
Aerospace medicine and biology: A continuing bibliography with indexes (supplement 368)	[NASA-CR-191257] p 41 N93-13457 Overview: Exobiology in solar system exploration	Neuromagnetic investigation of cortical regions underlying short-term memory
[NASA-SP-7011(368)] p 53 N93-14603	p 112 N93-18546	[AD-A261445] p 261 N93-26521
Aerospace medicine and biology: A continuing bibliography with indexes (supplement 369)	The solar system: Importance of research to the biological sciences p 113 N93-18547	BIOMASS Engineering verification of the biomass production
[NASA-SP-7011(369)] p 53 N93-14731	Venus: A search for clues to early biological	chamber p 67 N93-13996
Joint HVAC transmission EMF environmental study [DE92-017863] p 43 N93-15211	possibilities p 113 N93-18549 Mars: A reassessment of its interest to biology	Analysis of the lettuce data from the variable pressure growth chamber at NASA Johnson Space Center: A
Investigation of effects of 60-Hz electric and magnetic	p 113 N93-18550	three-stage nested design model p 245 N93-26069
fields on operant and social behavior and on the neuroendocrine system of nonhuman primates:	A robust model for finding optimal evolutionary trees (DE93-010682) p 330 N93-30483	Development of a pyrolysis waste recovery model with designs, test plans, and applications for space-based
Neuroendocrine portion of Experiment 4	Spontaneous regulating mechanisms that may have led	habitats p 267 N93-26076
[DE92-040955] p 95 N93-16166 Effects of maglev-spectrum magnetic field exposure on	to the origin of life DE93-603677 p 331 N93-31161	Introductions to the Proceedings of the Fourteenth Symposium on Biotechnology for Fuels and Chemicals
CEM T-lymphoblastoid human cell growth and	BIOLOGICAL MODELS (MATHEMATICS)	[DE93-006235] p 276 N93-28890
differentiation [DE92-041134] p 96 N93-16552	Flavoproteins as natural prototypes of molecular electronic devices with photocontrolled conductivity	Design of biomass management systems and components for closed loop life support systems
Kinetic tetrazolium microtiter assay	p 1 A93-11199	p 351 N93-29728
[NASA-CASE-MSC-21979-1] p 82 N93-17049 Target fragmentation in radiobiology	Model for the computation of self-motion in biological systems p 97 A93-17673	BIOMASS ENERGY PRODUCTION Biomass productivity and sustainability of a
[NASA-TM-4408] p 124 N93-18381	Consequences of a basic model of external-information	bioregenerative life-support system
The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf	perception p 98 A93-18414 A method for the theoretical calculation of the	SAE PAPER 921359 p 307 A93-41518 BIOMEDICAL DATA
proteins	parameters of single-stage decompression with equal	A lunar-based chemical analysis laboratory
[DE93-002940] p 115 N93-19751 Health effects of low-frequency electric and magnetic	probability of safety p 160 A93-26832 Human-like agents with posture planning ability	[ISBN 0-937194-25-5] p 39 A93-17426 Supporting human exploration in space - Biomedical
fields	p 192 A93-29118,	research p 48 A93-17428
[DE93-005675] p 127 N93-19838 Aerospace medicine and biology: A cumulative index	Estimation of the number of operators and their efficiency in flight vehicle control p 193 A93-29696	Recommended radiobiological studies for a Lunar-Based Chemical/Biological/Medical Analysis
to a continuing bibliography (supplement 371)	Predicting skeletal adaptation in altered gravity	Laboratory (LBCAL) p 39 A93-17429
[NASA-SP-7011(371)] p 172 N93-20889 Aerospace medicine and biology: A continuing	environments p 213 A93-30772 Testing primates with joystick-based automated	Crew factors and their psychological problems in long term space flight p 57 A93-17431
bibliography with indexes (supplement 372)	apparatus - Lessons from the Language Research Center's	Chronobiology in a moon-based chemical analysis and
[NASA-SP-7011(372)] p 172 N93-21044 Studying the effects of microgravity on lower vertebrate	Computerized Test System p 202 A93-32651 Mathematical model for the exchange of gases in the	physiologic monitoring laboratory p 48 A93-17439 K.E. Tsiolkovsky and biomedical problems connected
development and behavior p 158 N93-21099	lungs with special reference to carbon monoxide	with space exploration; Lectures Devoted to K.E.
Effects of 60-Hz electric and magnetic fields on operant and social behavior and on neuroendoctrine system of	Computer modeling of the Variable Pressure Growth	Tsiolkovsky's Ideas, 25th, Kaluga, Russia, Sept. 11-14, 1990, Transactions p 90 A93-18406
nonhuman primates	Chamber using the CASE/A simulation package [SAE PAPER 921354] p 306 A93-41513	Testing primates with joystick-based automated
[DE93-007677] p 207 N93-22913 The USO-concept applied to a biological model	[SAE PAPER 921354] p 306 A93-41513 Plant growth modeling at the JSC variable pressure	apparatus - Lessons from the Language Research Center's Computerized Test System p 202 A93-32651
experiment p 210 N93-24379	growth chamber - An application of experimental design (SAE PAPER 921356) p 307 A93-41515	Longitudinal study of astronaut health - Mortality in the
Japanese treefrog experiment onboard the Space Station Mir p 210 N93-24402	The efficiency of thermoregulatory responses in the	years 1959-1991 p 216 A93-32783 DoD space radiation concerns
Investigation of effects of 60-Hz electric and magnetic	cooling of the organism p 325 A93-43136 Modeling strategic behavior in human-automation	[AD-A253135] p 13 N93-10613
fields on operant and social behavior and on the neuroendocrine system of nonhuman primates	interaction - Why an 'aid' can (and should) go unused	An annotated bibliography of research involving women, conducted at the US Army Research Institute of
[DE93-007678] p 211 N93-24455	p 394 A93-52502 Simulation of excitatory/inhibitory interactions in single	Environmental Medicine
Aerospace medicine and biology: A continuing bibliography with indexes (supplement 373)	auditory neurons	[AD-A265497] p 360 N93-31917 BIOMETRICS
[NASA-SP-7011(373)] p 256 N93-26945 Gene transcription and electromagnetic fields	[AD-A253614] p 50 N93-13252 Neural network retinal model real time implementation	Cardiorespiratory measures of workload during
[DE93-010854] p 276 N93-28848	[AD-A255652] p 52 N93-14210	continuous manual performance p 160 A93-27192 BIONICS
Investigation of laser-induced retinal damage	Application of RADTRAN to estimation of doses to	Mechanical forces and their second messengers in stimulating cell growth in vitro p 204 A93-33043
[AD-A264096] p 338 N93-31094 Aerospace medicine and biology: A continuing	persons in enclosed spaces {DE93-000758} p 97 N93-17230	stimulating cell growth in vitro p 204 A93-33043 Equivalent dose of cosmic rays at representative points
bibliography with indexes (supplement 377) [NASA-SP-7011(377)] p 361 N93-31924	Target fragmentation in radiobiology	of human-body models p 248 A93-35223 BIOPHYSICS
[NASA-SP-7011(377)] p 361 N93-31924 Mechanisms of microwave induced damage in biologic	[NASA-TM-4408] p 124 N93-18381 Anatomy and physiology of plant conductive systems	Radiation physics, biophysics, and radiation biology
materials	[PB93-156032] p 245 N93-25877	[DE92-013673] p 6 N93-12266
[AD-A264415] p 358 N93-32035 BIOLOGICAL EVOLUTION	EVA Glove Research Team [NASA-CR-193014] p 313 N93-27847	A physico-chemical study of some areas of fundamental significance to biophysics
Comets as a possible source of prebiotic molecules p 109 A93-17979	Comparative mutagenesis of human cells in vivo and	[DE92-019917] p 40 N93-13034 A physico-chemical study of some areas of fundamental
Cometary supply of terrestrial organics - Lessons from	in vitro	significance to biophysics
the K/T and the present epoch p 109 A93-17981 Modern life at high temperatures evolution and	DE93-012269 p 276 N93-28651 Sudden loading and fatigue effects on the human	[DE92-019916] p 40 N93-13083 Biophysical and biochemical mechanisms in synaptic
taxonomy of extreme-thermophilic bacteria	spine	transmitter release
p 74 A93-18003 The earliest fossil evidence for sexual dimorphism in	[PB93-167526] p 286 N93-29199 Modelling and simulation of human retinal vision	[AD-A256340] p 55 N93-15198 Gene transcription and electromagnetic fields
primates p 152 A93-27775	processing p 335 N93-30269	[DE93-010854] p 276 N93-28848
Multiple evolutionary origins of magnetotaxis in bacteria p 153 A93-27799	A robust model for finding optimal evolutionary trees DE93-010682 p 330 N93-30483	Biophysical model for handwear insulation testing [AD-A262926] p 320 N93-28884
F	•	

-ior ozrimeno		SOBSECT INDEX
Biophysical and biochemical mechanisms in synaptic	BIOTECHNOLOGY	BLOOD CIRCULATION
transmitter release [AD-A264829] p 336 N93-30613	Biomedical engineering - A means to add new dimension to medicine and research p 190 A93-28717	Gas composition in the blood of rabbits exposed to a high-pressure atmosphere under conditions of
BIOPOLYMERS	New technologies for in-flight pasteless bioelectrodes	spontaneous and forced ventilation p 77 A93-18301
Liquid water and the origin of life p 268 A93-36552 BIOPROCESSING	p 289 A93-41174	Effects of head down tilt on hepatic circulation and
The current status and prospects in the study of cell	Immobilized cell bioreactors for water reclamation - Process stability and effect of reactor design	metabolism in conscious dogs p 80 A93-20899 Dynamics of the central and peripheral circulation of
physiology under microgravity p 38 A93-16001	SAE PAPER 921277 p 301 A93-41446	active rats on the first day of antiorthostatic hypokinesia
Life support research and development for the Department of Energy Space Exploration Initiative	Monitoring core temperature during exercise - Ingestible	(The role of training) p 242 A93-35261 Effects of two kinds of Chinese herb medicine on rabbit's
p 137 A93-25309	sensor vs. rectal thermistor p 394 A93-52309 Commercial opportunities in bioseparations and	ear microcirculation under simulated weightlessness
Tests characterizing bioprocessor hardware for analytical modeling	physiological testing aboard Space Station Freedom	p 327 A93-44842 Effect of food intake on skin vasomotor responses to
[SAÉ PAPER 921357] p 307 A93-41516	p 206 N93-22649	head-up tilt in humans p 379 A93-49180
Materials dispersion and biodynamics project research p 207 N93-22651	Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193
BIOREACTORS	[VTT-PUBS-77] p 209 N93-23369	BLOOD COAGULATION
Immobilized cell bioreactors for water reclamation -	Digital mammography, cancer screening: Factors important for image compression p 221 N93-24551	Fundamental diagnostic hematology: The bleeding and
Process stability and effect of reactor design [SAE PAPER 921277] p 301 A93-41446	Achieving the promise of the bioscience revolution: The	clotting disorders (second edition) [PB93-188670] p 338 N93-31158
Method for culturing mammalian cells in a perfused	role of the Federal Government	BLOOD FLOW
bioreactor [NASA-CASE-MSC-21293-2] p 4 N93-10109	[PB93-139970] p 244 N93-25457 The application of integrated knowledge-based systems	Effects of oxygen on regulation of cerebral blood flow in rabbits adapted to hypoxia p 3 A93-13545
Method for culturing mammalian cells in a horizontally	for the Biomedical Risk Assessment Intelligent Network	Effects of simulated microgravity (HDT) on blood
rotated bioreactor [NASA-CASE-MSC-21294-2] p 5 N93-10110	(BRAIN) p 258 N93-25595	Iluidity p 44 A93-14972 Cerebral blood flow velocities by transcranial Doppler
Biological conversion of synthesis gas culture	Proceedings of a Workshop on Molecular Nuclear Medicine	during parabolic flight p 84 A93-17533
development [DE92-001279] p 6 N93-12482	[DE93-010828] p 285 N93-28835	Local blood supply of the brain of guinea pigs developing the high-pressure neural syndrome p 76 A93-18293
High density cell culture system	Center of Excellence in Biotechnology (Research) [AD-A263598] p 330 N93-29915	Effects of head-down tilt for 10 days on the compliance
[NASA-CASE-MSC-22060-1] p 114 N93-19037 BIOSATELLITES	BIPOLARITY	of the leg p 162 A93-28680 Cardiovascular responses to upright tilt at a simulated
Engineering and technical support of experiments on	A simple computational model of center-surround	altitude of 3,700 m in men p 212 A93-30281
board the Cosmos-2044 biosatellite p 77 A93-18419 Quantitative autoradiographic analysis of muscarinic	receptive fields in the retina [AD-A264723] p 336 N93-30515	Alteration of structure and mobility of erythrocyte
cholinergic and GABAA (benzodiazepine) receptors in the	BIRDS	aggregates under normal- to microgravity conditions p 200 A93-32072
forebrain of rats flown on the Soviet Biosatellite COSMOS	Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin	Ultrasonic location of gas bubbles in the vascular bed
2044 p 156 A93-28743 Turning-over reaction during free fall in	synthesis	of a person working in a space suit p 262 A93-35239 Correlation between the lymph dynamics and venous
labyrinthectomized rats after a flight on the Cosmos 936	[NASA-CR-193040] p 222 N93-24763	pressure during short-term antiorthostatic effects
biosatellite p 241 A93-35246 Radiation dose measurement and biostack experiment	BLACKOUT (PHYSIOLOGY) The effect of G-LOC on psychomotor performance and	p 325 A93-43070 Publications of the Space Physiology and
in biocabin on board satellite p 327 A93-44845	behavior p 130 A93-25205	Countermeasures Program, Cardiopulmonary Discipline:
BIOSPHERE The life span of the biosphere revisited	Statistical analysis of the human strangulation experiments: Comparison to +Gz-induced loss of	1980-1990 [NASA-CR-4475] p 123 N93-18376
p 149 A93-21847	consciousness	Pharmacokinetics and Pharmacodynamics in Space
Biosphere 2 - Overview of system performance during the first nine months	[AD-A255485] p 54 N93-14789 BLOOD	[NASA-CP-10048] p 333 N93-29502 BLOOD PLASMA
[SAE PAPER 921129] p 291 A93-41317	Blood and urine responses to ingesting fluids of various	Seasonal effects on human physiological adaptation
Deep-sea smokers - Windows to a subsurface biosphere? p 397 A93-53284	salt and glucose concentrations to combat orthostatic intolerance p 83 A93-17528	factors, thermotolerance and plasma fibronectin p 47 A93-16157
Life systems for a lunar base p 66 N93-13992	Dynamic characteristic of changes of oxygen saturation	Immune response during space flight
Lunar subsurface architecture enhanced by artificial biosphere concepts p 107 N93-17448	of blood hemoglobin under conditions of acute hypoxia	p 94 A93-20664 Increased plasma O2 solubility improves O2 uptake of
Closed ecological systems: From test tubes to Earth's	in human body p 91 A93-19993 Autorosette formation in the peripheral blood of people	in situ dog muscle working maximally
biosphere p 315 N93-27976 BIOSYNTHESIS	with lengthy limitations of motor activity	p 111 A93-21684 Effects of running the Bostom Marathon on plasma
An efficient lightning energy source on the early earth	p 250 A93-35245 Toxicokinetics of inhaled bromotrifluoromethane (Halon	concentrations of large neutral amino acids
p 73 A93-17823 The evolution of aminoacyl-tRNA synthetases, the	1301) in human subjects p 278 A93-39705	p 160 A93-27048 Effect of head-down bedrest on blood/plasma density
biosynthetic pathways of amino acids and the genetic	Early markers of HIV infection and subclinical disease progression p 17 N93-11296	after intravenous fluid load p 163 A93-28687
code p 73 A93-17825	The identification and quantitation of triamterene in blood	Oxygen tension and water-soluble products of lipid
The effects of growth temperature on the methyl sterol and phospholipid fatty acid composition of Methylococcus	and urine from a fatal aircraft accident [AD-A254550] p 49 N93-12612	peroxidation in blood of volunteers in hypobaric hyperoxial p 169 A93-28751
capsulatus (Bath) p 153 A93-28691 Effect of dexamethasone on proliferating osteoblasts -	Investigation of effects of 60-Hz electric and magnetic	Effect of acute hypoxia exposures on plasma endothelin
Inhibition of prostaglandin E2 synthesis, DNA synthesis,	fields on operant and social behavior and on the neuroendocrine system of nonhuman primates:	in rats p 199 A93-30442 Effects of cold injury on serum angiotensin converting
and alterations in actin cytoskeleton	Neuroendocrine portion of Experiment 4	enzyme activities in rats p 199 A93-30444
p 155 A93-28728 Alterations in biosynthetic accumulation of collagen	[DE92-040955] p 95 N93-16166 Effects of medium blood alcohol levels on pilots'	Changes in the osmolality, monovalent cation concentration, and protein structure of blood plasma under
types I and III during growth and morphogenesis of	performance in the Sea King Simulator MK-41	extreme conditions p 200 A93-31188.
embryonic mouse salivary glands p 156 A93-28746 Effects of systemic L-tyrosine on dopamine release from	p 125 N93-19683 Monitoring human tissues for toxic substances	Alteration of structure and mobility of erythrocyte aggregates under normal- to microgravity conditions
rat corpus striatum and nucleus accumbens	[PB92-223239] p 173 N93-21498	p 200 A93-32072
p 201 A93-32118 Separation of rat pituitary secretory granules by	13 C NMR spectra of allosteric effectors of hemoglobin	Protein composition of the blood plasma of cosmonauts after lengthy orbital flights p 249 A93-35243
continuous flow electrophoresis p 329 A93-44933	[AD-A262979] p 284 N93-28293	Variability over time of complement activation induced
Cell wall and enzyme changes during the graviresponse	Transcutaneous analyte measuring methods [AD-A262861] p 333 N93-29509	by air bubbles in human and rabbit sera p 323 A93-42190
of the leaf-sheath pulvinus of oat (Avena sativa) p 329 A93-44941	Fundamental diagnostic hematology: Anemia (second	Reduction of postprandial lipemia after acute exposure
Unexpected substrate specificity of T4 DNA ligase	edition) [PB93-188662] p 338 N93-31140	to high altitude hypoxia p 382 A93-49567 Microwave digestion preparation and ICP determination
revealed by in vitro selection p 397 A93-52878 Interdisciplinary research and training program in the	Fundamental diagnostic hematology: The bleeding and	of boron in human plasma p 377 A93-49570
plant sciences	clotting disorders (second edition)	Silent HIV infection p 16 N93-11293 Carboxyalkylated hemoglobin as a potential blood
[DE92-015919] p.5 N93-10835	[PB93-188670] p 338 N93-31158 Blood lipids in aircrew recruits and in RAF aviators	substitute
Nitrogen control of chloroplast development and differentiation	p 362 N93-32251	[AD-A252329] p 22 N93-11561 Complement proteins and decompression sickness
[DE92-017392] p 39 N93-12768	BLOOD CELLS Structural and cytochemical signs of the development	susceptibility
Biological conversion of synthesis gas DE92-017673 p 40 N93-13269	of deadaptation, as determined from blood	[AD-A254448] p 50 N93-12905
Effects of spaceflight on the proliferation of jejunal	characteristics p 252 A93-36724 Freeze-dried human red blood cells	Systemic and pulmonary hypertension after resuscitation with cell-free hemoglobin
mucosal cells	[AD-A253295] p 14 N93-11193	[AD-A258185] p 120 N93-17900
[NASA-CR-191303] p 51 N93-13449 The role of pyridoxine as a countermeasure for in-flight	Systemic and pulmonary hypertension after resuscitation with cell-free hemoglobin	Vascular uptake of rehydration fluids in hypohydrated men at rest and exercise
loss of lean body mass p 255 N93-26068	[AD-A258185] p 120 N93-17900	[NASA-TM-103942] p 255 N93-26133

ES

SUBJECT INDEX		BONES
BLOOD PRESSURE	Methods devèlopment for total organic carbon	Validation of two temperature pill telemetry systems in
Role of atrial natriuretic peptide in systemic responses	accountability	humans during moderate and strenuous exercise
to acute isotonic volume expansion p 44 A93-14968	[NASA-CR-184438] p 40 N93-12949 Comparison of total body water estimates from O-18	[AD-A259068] p 124 N93-19072
Rat cardiovascular responses to whole body suspension - Head-down and non-head-down tilt p 37 A93-14974	and bioelectrical response prediction equations	Ventilation loss in the NASA Space Shuttle crew protective garments: Potential for heat stress
The effects of variations in the anti-G straining maneuver	[NASA-TP-3299] p 218 N93-23734	[AD-A258552] p 148 N93-19955
on blood pressure at + Gz acceleration	Vascular uptake of rehydration fluids in hypohydrated men at rest and exercise	Measurement of behavioral thermoregulation
p 118 A93-25204 Increased orthostatic blood pressure variability after	[NASA-TM-103942] p 255 N93-26133	[PB92-217033] p 172 N93-21046 AFTERRISE: Deep body temperature following
prolonged head-down tilt p 161 A93-28676	BODY KINEMATICS	exercise
Carotid-cardiac baroreflex response and LBNP tolerance	Influence of animation on dynamical judgments	[AD-A259887] p 218 N93-23984
following resistance training p 164 A93-28696 Alanine increases blood pressure during hypotension	p 98 A93-20275 Methodology issues concerning the accuracy of	Influence of the Cold Buster (tm) sports bar on heat debt, mobilization and oxidation of energy substrates
p 203 A93-33027	kinematic data collection and analysis using the ariel	[AD-A262762] p 285 N93-28939
Effects of 28-day isolation (ESA-ISEMSI'90) on blood	performance analysis system	Evaluation of personal cooling systems in conjunction
pressure and blood volume regulating hormones p 251 A93-35495	[NASA-CR-185689] p 34 N93-12211 BODY MEASUREMENT (BIOLOGY)	with explosive ordnance disposal suits [AD-A262862] p 350 N93-29471
Direct measurement of capillary blood pressure in the	A body mass measurement device based on the	The effects of cockpit heat on aviator sleep
human lip p 279 A93-40550	oscillation principle p 221 N93-24400	parameters p 371 N93-32266
Correlation between the lymph dynamics and venous pressure during short-term antiorthostatic effects	Portable equipment developed to estimate energy expenditure by simultaneous recording of heart rate and	BODY WEIGHT Thermogenesis induced by inhibition of shivering during
p 325 A93-43070	body position p 368 N93-32243	cold exposure in exercise-trained rats
Arterial pulse pressure and vasopressin release in	BODY SIZE (BIOLOGY)	p 75 A93-18039
humans during lower body negative pressure p 360 A93-47096	Astronaut candidate strength measurement using the Cybex 2 and the LIDO Multi-Joint 2 dynamometers	Energy expenditure climbing Mt. Everest p 92 A93-20031
Transcapillary fluid responses to lower body negative	[NASA-CR-185679] p 34 N93-12195	Effects of head-down tilt and saline loading on body
pressure p 380 A93-49292	Body composition and physical performance	weight, fluid, and electrolyte homeostasis in man
Volume-homeostatic mechanisms in humans during a 12-h posture change p 387 A93-52620	[AD-A255627] p 69 N93-14161 A body mass measurement device based on the	p 163 A93-28685 I-NIGHTS and beyond Interim-Night Integrated
Central cardiovascular pressures during graded water	oscillation principle p 221 N93-24400	Goggle and Head Tracking System p 227 A93-30054
immersion in humans p 402 A93-55457	BODY SWAY TEST	Body composition and physical performance
Development and enhancement of a mode of performance and decision making under stress in a real	Effects of visually induced self-motion perception (vection) on upright standing posture	[AD-A255627] p 69 N93-14161
life setting	p 214 A93-31531	Muscle glycogen, fiber type, aerobic fitness, and anaerobic capacity of West Coast US Navy Sea-Air-Land
[AD-A257796] p 123 N93-18363	Postural stabilization on a moving platform oscillating	personnel (SEALs)
Biological parameters and cardiovascular risk factors	at high frequencies p 252 A93-35497 BODY TEMPERATURE	[AD-A258364] p 121 N93-18209 Field trial of caffeine on physical performance at altitude:
with the flying personnel of the Belgian Armed Forces p 370 N93-32260	Thermal convergence fails to predict heat tolerance	An attempt to overcome the challenge
BLOOD VESSELS	limits p 8 A93-10331	[AD-A264260] p 337 N93-30894
Distribution of oxygen tension in pial arterioles of rats under normobaric hyperoxia p 76 A93-18295	Preliminary study on the physiological changes and tolerance in ground squirrels under several specific	BOEING AIRCRAFT
under normobaric hyperoxia p 76 A93-18295 BLOOD VOLUME	experimental conditions p 2 A93-13532	Toward a flight deck automation philosophy for the Boeing High Speed Civil Transport
Altered baseline blood volume and the norepinephrine	A second postcooling afterdrop - More evidence for a	(SAE PAPER 921133) p 291 A93-41321
response to stress in humans p 43 A93-14123	convective mechanism p 44 A93-14969 Skin temperature and heat flow of head-neck region	Occupant kinematics simulation of the Kegworth air
Metabolic changes observed in astronauts p 84 A93-17535	under different ambient temperatures p 46 A93-16074	accident p 142 N93-19662 Is axial loading a primary mechanism of injury to the
Drug effects on orthostatic intolerance induced by	Comparison of four noninvasive rewarming methods for	lower limb in an impact aircraft accident?
bedrest p 86 A93-17544	mild hypothermia p 88 A93-18037 Decrement in manual arm performance during whole	p 125 N93-19664
Blood volume reduction counteracts fluid shifts in water immersion p 118 A93-25206	body cooling p 88 A93-18038	BOEING 737 AIRCRAFT Barotrauma in Boeing 737 cabin crew
The effects of a 10-day period of head-down tilt on the	Thermogenesis induced by inhibition of shivering during	p 278 A93-39706
cardiovascular responses to intravenous saline loading p 163 A93-28686	cold exposure in exercise-trained rats p 75 A93-18039	BOMBING EQUIPMENT The effects of head and sensor movement on flight
Gravitational stress and volume regulation	Heat stress in protective clothing - Validation of a	profiles during simulated dive bombing
p 165 A93-28709	computer model and the Heat-Humidity Index (HHI)	p 185 A93-27131
Aerobic fitness. I - Response of volume regulating hormones to head-down tilt p 167 A93-28721	p 88 A93-18040 Sleep and circadian rhythms p 94 A93-20659	BONE DEMINERALIZATION Age-related bone changes p 93 A93-20655
Effects of 28-day isolation (ESA-ISEMSI'90) on blood	Study of the functioning of the central and the peripheral	Can the adult skeleton recover lost bone?
pressure and blood volume regulating hormones	contours of the thermoregulation system using a thermophysical model of the rabbit body	p 93 A93-20656
p 251 A93-35495 Volume-homeostatic mechanisms in humans during a	p 111 A93-23075	Prevention of space flight induced soft tissue calcification and disuse osteoporosis
12-h posture change p 387 A93-52620	Investigation of the character of changes in the 'central'	p 214 A93-31545
Effect of hemorrhage on cardiac output, vasopressin, aldosterone, and diuresis during immersion in men	temperature of the body in cold environment, using a rabbit-body thermoregulation model p 112 A93-25651	Image technology and information analysis of bone
(NASA-TM-103949) p 6 N93-12014	Effect of heat acclimatization on cAMP level in plasma,	change with gravitational exposure p 378 A93-49177 Bone loss and human adaptation to lunar gravity
Vascular uptake of rehydration fluids in hypohydrated	cerebrospinal fluid and preoptic area-hypothalamus in	p 51 N93-14002
men at rest and exercise [NASA-TM-103942] p 255 N93-26133	hyperthermal rabbits p 199 A93-30437 Effects of cold injury on serum angiotensin converting	BONE MARROW Hematologic status of rats born and grown in a
BLOWERS	enzyme activities in rats p 199 A93-30444	hypergravity environment p 239 A93-35212
Development of the carbon dioxide removal system	Adjustable temperature level of a physiological	A comparative analysis of the bone marrow cell
blower used on Space Station Freedom [SAE PAPER 921188] p 294 A93-41367	thermostat and the feasibility of its precise maintenance p 324 A93-43036	composition in rats following a long-duration continuous or interrupted exposure to a hypogeomagnetic field
Evaluation of an electronics system concept for	The efficiency of thermoregulatory responses in the	p 240 A93-35213
Respiratory Protection system (RESPO 21)	cooling of the organism p 325 A93-43136	AFRRI reports
[AD-A253394] p 30 N93-10288 BODY COMPOSITION (BIOLOGY)	Electromyographic patterns of the thermoregulatory activity of motor units during cooling of the organism	[AD-A254581] p 49 N93-12649 BONE MINERAL CONTENT
Protein absorption and energy digestibility at high	p 360 A93-46968	Effect of exercise and bisphosphonate on mineral
altitude p 115 A93-21683	Influence of temperature and metabolic rate on work	balance and bone density during 360 day antiorthostatic
BODY FLUIDS The effects of cephalad body fluid redistribution on the	performance with Canadian Forces NBC clothing	hypokinesia p 170 A93-28760 BONES
ultrastructure of the vestibular apparatus of guinea pig	nuclear, biological, and chemical assault protective garments p 389 A93-49218	Protection of Acanthopanax senticosus against
p 4 A93-13717	Monitoring core temperature during exercise - Ingestible	suspension-induced bone loss in rats p 2 A93-13528
Changes in total body water during spaceflight p 86 A93-17548	sensor vs. rectal thermistor p 394 A93-52309	Age-related bone changes p 93 A93-20655 Simulated weightlessness and bone metabolism -
Modification of water and electrolyte metabolism during	Intermittent cold exposure causes a muscle-specific shift in the fiber type composition in rats p 378 A93-52618	Gravitational stimulation enhances insulin sensitivity
head-down tilting by hypoglycemia in men	Effectiveness of NASA 1032 and 1035 and Air Force	p 168 A93-28736
p 92 A93-20029 Investigation of fluid-electrolyte metabolism and its	1030 and 1034 units in protection against cold water	Microgravity and bone adaptation at the tissue level p 170 A93-28761
hormonal regulation during the second joint Soviet-French	hypothermia LAD-32551201 p. 34 N93-12201	Healing of fractured bone in rats during readaptation
space mission p 247 A93-35207	[AD-A255120] p 34 N93-12291 Effect of protective clothing ensembles on artillery	following 14-day suspension p 241 A93-35260
Changes in body fluid compartments during hypohydration and rehydration in heat-acclimated tropical	battery crew performance	Aminohydroxybutane bisphosphonate and clenbuterol prevent bone changes and retard muscle atrophy
subjects p 251 A93-35496	[AD-A254327] p 64 N93-12960	respectively in tail-suspended rats p 271 A93-39703
Body fluid compartments, renal blood flow, and hormones at 6,000 m in normal subjects	A review of models of the human temperature regulation system	A prospective evaluation of stress fractures/overuse injuries in a population of West Point cadets
p 281 A93-41125	AD-A258023 p 120 N93-17918	[AD-A252427] p 13 N93-10709

BORON SUBJECT INDEX

BONON		SUBJECT INDEX
Assessment of programs in space biology and	PRAIN CIRCLE ATION	BRINES
medicine	BRAIN CIRCULATION The response of medullar respiratory neurons to the	Microbiological test results of the environmental control
[NASA-CR-190930] p 41 N93-13327	stimulation of the amygdaloid nuclei under hypoxia	and life support systems vapors compression distillation
Training, muscle fatigue and stress fractures	p 2 A93-12860	subsystem recycle tank components following various
[AD-A255277] p 54 N93-15006 The design of mechanically compatible fasteners for	Identification of degree of head injury caused by impact	pretreatment protocols [NASA-CR-192570] p 359 N93-32354
human mandible reconstruction p 253 N93-25569	loads in dog and rabbit p 4 A93-13720	BROADBAND p 359 N83-32354
BORON	Cerebral blood flow velocities by transcranial Doppler during parabolic flight p 84 A93-17533	Wide-bandwidth high-resolution search for
Microwave digestion preparation and ICP determination	Cerebral blood flow - Comparison of ground-based and	extraterrestrial intelligence
of boron in human plasma p 377 A93-49570 BOTANY	spaceflight data and correlation with space adaptation	[NASA-CR-191618] p 110 N93-15825
Anatomy and physiology of plant conductive systems	syndrome p 87 A93-17553	BROADBAND AMPLIFIERS Wide-bandwidth high-resolution search for
[PB93-156032] p 245 N93-25877	Infraslow bioelectric activity of the monkey's brain in	extraterrestrial intelligence
BOXES	the development of the high-pressure neural syndrome	[NASA-CR-193137] p 322 N93-28895
Glovebox design for Space Station Freedom Crew	p 75 A93-18286	BROKEN SYMMETRY
Health Care System [SAE PAPER 921139] p 292 A93-41326	Local blood supply of the brain of guinea pigs developing the high-pressure neural syndrome p 76 A93-18293	Chiral-symmetry-breaking in nonequilibrium chemical
[SAE PAPER 921139] p 292 A93-41326 BRAIN	The state of brain oxygenation in guinea pigs breathing	systems - The racemization influence p 269 A93-36563
Effect of DL-DOPA, L-5-HTP and pentobarbital sodium	high-density gas mixtures p 76 A93-18294	Chiral symmetry breaking in nonlinear autocatalytic
on brain encephalofluctuographs in rats	Effects of systemic L-tyrosine on dopamine release from	reactions and the effect of external noise
p 2 A93-13530	rat corpus striatum and nucleus accumbens	p 269 A93-36564
A study of human brain somatosensory evoked potential and its application to man-machine-environment system	p 201 A93-32118	BROMIDES The effects of puridestimine bramide on visual
engineering - Preliminary exploration of SEP in normal	Changes in the brain blood flow and respiration during psychoemotional stress p 252 A93-36723	The effects of pyridostigmine bromide on visual performance p 87 A93-18034
adult p 12 A93-13719	Oxygen regime in the frontal cerebral cortex of monkeys	Toxicological investigations of flight accidetns: Findings
Relationship between ERP and workload in manual	during a two-week space flight p 272 A93-40773	and methods p 126 N93-19695
control p 30 A93-13721	Cerebral blood velocity and other cardiovascular	The acute inhalation toxicity of pyrolysis products of
Vagotropic effects of peptides isolated from the brain of hibernating susliks p 38 A93-16749	responses to 2 days of head-down tilt	halon 1301 [AD-A260874] p 254 N93-25629
Increased release of brain serotonin reduces	p 280 A93-41122 Acceleration-induced effects on baboon blood	[AD-A260874] p 254 N93-25629 BROMINE COMPOUNDS
vulnerability to ventricular fibrillation in the cat	chemistry p 376 A93-49224	Human performance and physiological function during
ρ 151 A93-26500	Cerebral blood flow velocity in humans exposed to 24	a 24-hr exposure to 1 percent bromotrifluoromethane
Dopamine release in rat striatum - Physiological coupling	h of head-down tilt p 381 A93-49295	(Halon 1301) p 277 A93-39704
to tyrosine supply p 152 A93-27050 Tyrosine - Effects on catecholamine release	Cerebral autoregulation in microgravity	BRONCHI The chronic effects of jP-8 jet fuel exposure on the
p 204 A93-33038	p 173 N93-21112 Acquisition of physiological data during G-induced Loss	lungs
The asthenic syndrome and the dynamics of	of Consciousness (G-LOC)	[AD-A264162] p 334 N93-30153
mental-work capacity p 256 A93-35241	[AD-A264492] p 335 N93-30400	BUBBLES
Immunocytochemical localization of atrial natriuretic	BRAIN DAMAGE	Variability over time of complement activation induced
factor (ANF)-like peptides in the brain and heart of the treefrog Hyla japonica - Effect of weightlessness on the	Pharmacological defense of the brain during radiation damage - Some arguments p 240 A93-35217	by air bubbles in human and rabbit sera p 323 A93-42190
distribution of immunoreactive neurons and cardiocytes	damage - Some arguments p 240 A93-35217 Long-lasting neuropsychological changes after a single	BUILDINGS
p 377 A93-49561	high altitude climb p 278 A93-39713	Survey of protocols for conducting indoor air quality
Cognition in the brain: Investigations using positron	Analysis of injuries following the crash of Avianca Flight	investigations in large buildings
emission tomography [AD-A254280] p 14 N93-10765	52 p 382 A93-49562	[PB93-119865] p 194 N93-21215 BURNS (INJURIES)
	Neuropsychological components of object	
	identification	Mechanisms of immune failure in burn injury
Physiological analyses of the afferents controlling brain neurochemical systems	identification LAD-A2614491 p. 259 N93-26347	Mechanisms of immune failure in burn injury p 15 N93-11285
neurochemical systems [AD-A253185] p 14 N93-11146	identification [AD-A261449] p 259 N93-26347 Secondary injury factors and preventative treatment	p 15 N93-11285 The effect of pain on task performance: A review of
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409	p 15 N93-11285 The effect of pain on task performance: A review of the literature
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and	p 15 N93-11285 The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216
neurochemical systems AD-A253185 p 14 N93-11146 A core facility for the study of neurotoxins of biological origin AD-A254359 p 50 N93-12945	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG	p 15 N93-11285 The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A254359] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and	p 15 N93-11285 The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A254359] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160 BRAIN STEM Effects of sustained +Gz stress on BAEP in waked	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A254359] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160 BRAIN STEM Effects of sustained +Gz stress on BAEP in waked rabbits p 10 A93-13531	p 15 N93-11285 The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A254359] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging	AD-A261449	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A254359] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160 BRAIN STEM Effects of sustained +Gz stress on BAEP in waked rabbits p 10 A93-13531	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048 C C-135 AIRCRAFT
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A253159] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160 BRAIN STEM Effects of sustained +Gz stress on BAEP in waked rabbits p 10 A93-13531 Differential effects of long-term hypoxia on norepinephrine turnover in brain stem cell groups p 78 A93-20030 Idaverine, an M2- vs. M3-selective muscarinic	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A254359] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory [AD-A255788] p 58 N93-14646	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A254359] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory [AD-A255788] p 58 N93-14646 Cognition and the brain	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160 BRAIN STEM Effects of sustained + Gz stress on BAEP in waked rabbits p 10 A93-13531 Differential effects of tong-term hypoxia on norepinephrine turnover in brain stem cell groups p 78 A93-20030 Idaverine, an M2-vs. M3-selective muscatinic antagonist, does not prevent motion sickness in cats p 327 A93-44878	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A254359] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory [AD-A255788] p 58 N93-14646	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160 BRAIN STEM Effects of sustained +Gz stress on BAEP in waked rabbits p 10 A93-13531 Differential effects of long-term hypoxia on norepinephrine turnover in brain stem cell groups p 78 A93-20030 Idaverine, an M2- vs. M3-selective muscairnic antagonist, does not prevent motion sickness in cats p 327 A93-44878 Evoked brain potentials as indicators of a central nervous	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] p 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A254359] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory [AD-A255788] p 58 N93-14646 Cognition and the brain [AD-A255483] p 59 N93-14788 AFRIR Reports Radiobiology [AD-A257231] p 80 N93-15965	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment P893-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048 C C-135 AIRCRAFT
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A253185] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory [AD-A255788] p 58 N93-14646 Cognition and the brain [AD-A255483] p 59 N93-14788 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Effects of terfenadine and diphenhydramine on brain	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] p 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control
neurochemical systems [AD-A253185] p 14 N93-11146 A core facifity for the study of neurotoxins of biological origin [AD-A2534359] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory [AD-A255788] p 58 N93-14646 Cognition and the brain [AD-A255483] p 59 N93-14788 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Effects of terlenadine and diphenhydramine on brain activity ano performance in a UH-60 flight simulator	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160 BRAIN STEM Effects of sustained + Gz stress on BAEP in waked rabbits p 10 A93-13531 Differential effects of long-term hypoxia on norepinephrine turnover in brain stem cell groups p 78 A93-20030 Idaverine, an M2- vs. M3-selective muscarinic antagonist, does not prevent motion sickness in cats p 327 A93-44878 Evoked brain potentials as indicators of a central nervous impairment in a simulated saturation dive to 560 m DLR-FB-92-14 p 219 N93-24093 BREADBOARD MODELS Engineering verification of the biomass production	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048 C C-135 AIRCRAFT
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A254359] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory [AD-A255788] p 58 N93-14646 Cognition and the brain [AD-A255483] p 59 N93-14788 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Effects of terfenadine and diphenhydramine on brain activity ano performance in a UH-60 flight simulator [AD-A258012] p 119 N93-17817	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] p 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF)
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A253185] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory [AD-A255788] p 58 N93-14646 Cognition and the brain [AD-A255483] p 59 N93-14788 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Effects of terlenadine and diphenhydramine on brain activity ano performance in a UH-60 flight simulator [AD-A258012] p 119 N93-17817 Adaptive filters for monitoring localized brain activity from surface potential time series	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160 BRAIN STEM Effects of sustained + Gz stress on BAEP in waked rabbits p 10 A93-13531 Differential effects of long-term hypoxia on norepinephrine turnover in brain stem cell groups p 78 A93-20030 Idaverine, an M2- vs. M3-selective muscarinic antagonist, does not prevent motion sickness in cats p 327 A93-44878 Evoked brain potentials as indicators of a central nervous impairment in a simulated saturation dive to 560 m DLR-FB-92-14 p 219 N93-24093 BREADBOARD MODELS Engineering verification of the biomass production	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] p 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF) [SAE PAPER 921186] p 294 A93-41365
neurochemical systems [AD-A253185] p 14 N93-11146 A core facifity for the study of neurotoxins of biological origin [AD-A254359] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory [AD-A255788] p 58 N93-14646 Cognition and the brain [AD-A255483] p 59 N93-14788 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Effects of terfenadine and diphenhydramine on brain activity ano performance in a UH-60 flight simulator [AD-A258012] p 119 N93-17817 Adaptive filters for monitoring localized brain activity from surface potential time series [DE93-003795] p 217 N93-22774	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160 BRAIN STEM P 335 N93-30160 BRAIN STEM Effects of sustained +Gz stress on BAEP in waked rabbits p 10 A93-13531 Differential effects of long-term hypoxia on norepinephrine turnover in brain stem cell groups p 78 A93-20030 Idaverine an M2 vs. M3-selective muscarinic antagonist, does not prevent motion sickness in cats p 327 A93-44878 Evoked brain potentials as indicators of a central nervous impairment in a simulated saturation dive to 560 m DLR-FB-92-14 p 219 N93-24093 BREADBOARD MODELS Engineering verification of the biomass production chamber p 67 N93-13996 BREAKING Healing of fractured bone in rats during readaptation following 14-day suspension p 241 A93-35260	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] p 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF) [SAE PAPER 921186] p 294 A93-41365 Development of the carbon dioxide removal system
neurochemical systems AD-A253185 p 14 N93-11146 A core facility for the study of neurotoxins of biological origin AD-A253185 p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness NASA-CR-199957 p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging DE92-040244 p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory AD-A255788 p 58 N93-14646 Cognition and the brain AD-A255483 p 59 N93-14788 AFRRI Reports Radiobiology AD-A257231 p 80 N93-15965 Effects of terfenadine and diphenhydramine on brain activity ano performance in a UH-60 flight simulator AD-A258012 p 119 N93-17817 Adaptive filters for monitoring localized brain activity from surface potential time series DE93-003795 p 217 N93-22774 Sensory sensitivities and discriminations and their roles	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160 BRAIN STEM Effects of sustained +Gz stress on BAEP in waked rabbits p 10 A93-13531 Differential effects of long-term hypoxia on norepinephrine turnover in brain stem cell groups p 78 A93-20030 Idaverine, an M2- vs. M3-selective muscarinic antagonist, does not prevent motion sickness in cats p 327 A93-44878 Evoked brain potentials as indicators of a central nervous impairment in a simulated saturation dive to 560 m DLR-F9-92-14 BREADBOARD MODELS Engineering verification of the biomass production chamber p 67 N93-13996 BREAKING Healing of fractured bone in rats during readaptation following 14-day suspension p 241 A93-35260 BREATHING	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] p 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF) [SAE PAPER 921186] p 294 A93-41365
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A253185] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory [AD-A255788] p 58 N93-14646 Cognition and the brain [AD-A255483] p 59 N93-14788 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Effects of terfenadine and diphenhydramine on brain activity ano performance in a UH-60 flight simulator [AD-A258012] p 119 N93-17817 Adaptive filters for monitoring localized brain activity from surface potential time series [DE93-003795] p 217 N93-22774 Sensory sensitivities and discriminations and their roles in aviation	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160 BRAIN STEM Effects of sustained +Gz stress on BAEP in waked rabbits p 10 A93-13531 Differential effects of long-term hypoxia on norepinephrine turnover in brain stem cell groups p 78 A93-20030 Idaverine, an M2- vs. M3-selective muscatinic antagonist, does not prevent motion sickness in cats p 327 A93-44878 Evoked brain potentials as indicators of a central nervous impairment in a simulated saturation dive to 560 m DLR-FB-92-14 p 219 N93-24093 BREADBOARD MODELS Engineering verification of the biomass production chamber p 67 N93-13996 BREAKING Healing of fractured bone in rats during readaptation following 14-day suspension p 241 A93-35260 BREATHING Evaluation of an electronics system concept for	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] p 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF) [SAE PAPER 921186] p 294 A93-41365 Development of the carbon dioxide removal system blower used on Space Station Freedom [SAE PAPER 921188] p 294 A93-41367 Conceptual design of a lunar base thermal control
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A253185] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory [AD-A255788] p 58 N93-14646 Cognition and the brain [AD-A255483] p 59 N93-14788 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Effects of terlenadine and diphenhydramine on brain activity ano performance in a UH-60 flight simulator [AD-A258012] p 119 N93-17817 Adaptive filters for monitoring localized brain activity from surface potential time series [DE93-003795] p 217 N93-22774 Sensory sensitivities and discriminations and their roles in aviation [AD-A259742] p 224 N93-23479	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160 BRAIN STEM Effects of sustained +Gz stress on BAEP in waked rabbits p 10 A93-13531 Differential effects of long-term hypoxia on norepinephrine turnover in brain stem cell groups p 78 A93-20030 Idaverine, an M2- vs. M3-selective muscarinic antagonist, does not prevent motion sickness in cats p 327 A93-44878 Evoked brain potentials as indicators of a central nervous impairment in a simulated saturation dive to 560 m DLR-F9-92-14 BREADBOARD MODELS Engineering verification of the biomass production chamber p 67 N93-13996 BREAKING Healing of fractured bone in rats during readaptation following 14-day suspension p 241 A93-35260 BREATHING	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] p 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF) [SAE PAPER 921186] p 294 A93-41365 Development of the carbon dioxide removal system blower used on Space Station Freedom [SAE PAPER 921188] p 294 A93-41367 Conceptual design of a lunar base thermal control system p 68 N93-14003
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A253185] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory [AD-A255788] p 58 N93-14646 Cognition and the brain [AD-A255483] p 59 N93-14788 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Effects of terfenadine and diphenhydramine on brain activity ano performance in a UH-60 flight simulator [AD-A258012] p 119 N93-17817 Adaptive filters for monitoring localized brain activity from surface potential time series [DE93-003795] p 217 N93-22774 Sensory sensitivities and discriminations and their roles in aviation	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160 BRAIN STEM Effects of sustained +Gz stress on BAEP in waked rabbits p 10 A93-13531 Differential effects of long-term hypoxia on norepinephrine turnover in brain stem cell groups p 78 A93-20030 Idaverine, an M2- vs. M3-selective muscarinic antagonist, does not prevent motion sickness in cats p 327 A93-44878 Evoked brain potentials as indicators of a central nervous impairment in a simulated saturation dive to 560 m DLR-FB-92-14 p 219 N93-24093 BREADBOARD MODELS Engineering verification of the biomass production chamber p 67 N93-13996 BREAKING Healing of fractured bone in rats during readaptation following 14-day suspension p 241 A93-35260 BREATHING Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21)	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] p 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF) [SAE PAPER 921186] p 294 A93-41365 Development of the carbon dioxide removal system blower used on Space Station Freedom [SAE PAPER 921188] p 294 A93-41367 Conceptual design of a lunar base thermal control system p 68 N93-14003 The relationship between environmental conditions and
neurochemical systems AD-A253185 p 14 N93-11146 A core facility for the study of neurotoxins of biological origin AD-A254359 p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness NASA-CR-190957 p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging DE92-040244 p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory AD-A255788 p 58 N93-14646 Cognition and the brain AD-A255483 p 59 N93-14788 AFRII Reports Radiobiology AD-A257231 p 80 N93-15965 Effects of terfenadine and diphenhydramine on brain activity and performance in a UH-60 flight simulator AD-A258012 p 119 N93-17817 Adaptive filters for monitoring localized brain activity from surface potential time series DE93-003795 p 217 N93-22774 Sensory sensitivities and discriminations and their roles in aviation AD-A259742 p 224 N93-23479 Theory of synaptic plasticity in visual cortex	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160 BRAIN STEM Effects of sustained +Gz stress on BAEP in waked rabbits p 10 A93-13531 Differential effects of long-term hypoxia on norepinephrine turnover in brain stem cell groups p 78 A93-20030 Idaverine, an M2- vs. M3-selective muscarinic antagonist, does not prevent motion sickness in cats p 327 A93-44878 Evoked brain potentials as indicators of a central nervous impairment in a simulated saturation dive to 560 m DLR-FB-92-14 p 219 N93-24093 BREADBOARD MODELS Engineering verification of the biomass production chamber p 67 N93-13996 BREAKING Healing of fractured bone in rats during readapatation following 14-day suspension p 241 A93-35260 BREATHING Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) IAD-A253394 p 30 N93-10288 BREATHING APPARATUS A new protective breathing apparatus	The effect of pain on task performance: A review of the literature [AD-A254336] P 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] P 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] P 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF) [SAE PAPER 921186] Development of the carbon dioxide removal system blower used on Space Station Freedom [SAE PAPER 921188] Conceptual design of a lunar base thermal control system p 68 N93-14003 The relationship between environmental conditions and UH-60 cockpit temperature
neurochemical systems AD-A253185 p 14 N93-11146 A core facility for the study of neurotoxins of biological origin AD-A253159 p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness NASA-CR-190957 p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging DE92-040244 p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory AD-A255788 p 58 N93-14646 Cognition and the brain AD-A255483 p 59 N93-14788 AFRRI Reports Radiobiology AD-A257231 p 80 N93-15965 Effects of terlenadine and diphenhydramine on brain activity ano performance in a UH-60 flight simulator AD-A256012 p 119 N93-17817 Adaptive filters for monitoring localized brain activity from surface potential time series DE93-003795 p 217 N93-22774 Sensory sensitivities and discriminations and their roles in aviation AD-A259742 p 224 N93-23479 Theory of synaptic plasticity in visual cortex AD-A260052 p 224 N93-23960 Biomagnetic localization from transient quasi-static events	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160 BRAIN STEM Effects of sustained +Gz stress on BAEP in waked rabbits p 10 A93-13531 Differential effects of long-term hypoxia on norepinephrine turnover in brain stem cell groups p 78 A93-20030 Idaverine, an M2- vs. M3-selective muscarinic antagonist, does not prevent motion sickness in cats p 327 A93-44878 Evoked brain potentials as indicators of a central nervous impairment in a simulated saturation dive to 560 m DLR-F9-92-14 P 219 N93-24093 BREADBOARD MODELS Engineering verification of the biomass production chamber p 67 N93-13996 BREAKING Healing of fractured bone in rats during readaptation following 14-day suspension p 241 A93-35260 BREATHING Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) IAD-A253394 p 30 N93-10288 BREATHING APPARATUS A new protective breathing apparatus p 29 A93-13535	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] p 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF) [SAE PAPER 921186] p 294 A93-41365 Development of the carbon dioxide removal system blower used on Space Station Freedom [SAE PAPER 921188] p 294 A93-41367 Conceptual design of a lunar base thermal control system p 68 N93-14003 The relationship between environmental conditions and UH-60 cockpit temperature
neurochemical systems AD-A253185 p 14 N93-11146 A core facility for the study of neurotoxins of biological origin AD-A253185 p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness NASA-CR-190957 p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging DE92-040244 p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory AD-A255788 p 58 N93-14646 Cognition and the brain AD-A255788 p 59 N93-14788 AFRRI Reports Radiobiology AD-A257231 p 80 N93-15965 Effects of terfenadine and diphenhydramine on brain activity ano performance in a UH-60 flight simulator AD-A258012 p 119 N93-17817 Adaptive filters for monitoring localized brain activity from surface potential time series DE93-003795 p 217 N93-22774 Sensory sensitivities and discriminations and their roles in aviation AD-A259742 p 224 N93-23479 Theory of synaptic plasticity in visual cortex AD-A260052 p 224 N93-23479 Theory of synaptic plasticity in visual cortex AD-A260052 p 224 N93-23479 Biomagnetic localization from transient quasi-static events DE93-007328 p 253 N93-25186	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160 BRAIN STEM Effects of sustained +Gz stress on BAEP in waked rabbits p 10 A93-13531 Differential effects of long-term hypoxia on norepinephrine turnover in brain stem cell groups p 78 A93-20030 Idaverine, an M2- vs. M3-selective muscarinic antagonist, does not prevent motion sickness in cats p 327 A93-44878 Evoked brain potentials as indicators of a central nervous impairment in a simulated saturation dive to 560 m DLR-FB-92-14 p 219 N93-24093 BREADBOARD MODELS Engineering verification of the biomass production chamber p 67 N93-13996 BREAKING Healing of fractured bone in rats during readapatation following 14-day suspension p 241 A93-35260 BREATHING Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) IAD-A253394 p 30 N93-10288 BREATHING APPARATUS A new protective breathing apparatus	The effect of pain on task performance: A review of the literature [AD-A254336] P 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] P 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] P 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF) [SAE PAPER 921186] Development of the carbon dioxide removal system blower used on Space Station Freedom [SAE PAPER 921188] Conceptual design of a lunar base thermal control system p 68 N93-14003 The relationship between environmental conditions and UH-60 cockpit temperature [AD-A255918] Application of RADTRAN to estimation of doses to persons in enclosed spaces
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A253185] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory [AD-A255788] p 58 N93-14646 Cognition and the brain [AD-A255483] p 59 N93-14788 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Effects of terfenadine and diphenhydramine on brain activity and performance in a UH-60 flight simulator [AD-A258012] p 119 N93-17817 Adaptive filters for monitoring localized brain activity from surface potential time series [DE93-003795] p 217 N93-22774 Sensory sensitivities and discriminations and their roles in aviation [AD-A259742] p 224 N93-23479 Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960 Biomagnetic localization from transient quasi-static events [DE93-007328] p 253 N93-25186 Proceedings of Workshop 1: The Human Brainmap	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160 BRAIN STEM Effects of sustained +Gz stress on BAEP in waked rabbits p 10 A93-13531 Differential effects of long-term hypoxia on norepinephrine turnover in brain stem cell groups p 78 A93-20030 Idaverine, an M2- vs. M3-selective muscarinic antagonist, does not prevent motion sickness in cats p 327 A93-44878 Evoked brain potentials as indicators of a central nervous impairment in a simulated saturation dive to 560 m [DIR-F9-92-14] p 219 N93-24093 BREADBOARD MODELS Engineering verification of the biomass production chamber p 67 N93-13996 BREAKING Healing of fractured bone in rats during readaptation following 14-day suspension p 241 A93-35260 BREATHING Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) AD-A253394 p 30 N93-10288 BREATHING APPARATUS A new protective breathing apparatus p 29 A93-13535 Physiological effects of positive pressure ventilation IAD-A2548091 p 49 N93-12751 Statistically based decompression tables 8:	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] p 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF) [SAE PAPER 921186] p 294 A93-41365 Development of the carbon dioxide removal system blower used on Space Station Freedom [SAE PAPER 921188] p 294 A93-41367 Conceptual design of a lunar base thermal control system p 68 N93-14003 The relationship between environmental conditions and UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230
neurochemical systems AD-A253185 p 14 N93-11146 A core facility for the study of neurotoxins of biological origin AD-A253185 p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness NASA-CR-190957 p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging DE92-040244 p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory AD-A255788 p 58 N93-14646 Cognition and the brain AD-A255788 p 59 N93-14788 AFRRI Reports Radiobiology AD-A257231 p 80 N93-15965 Effects of terfenadine and diphenhydramine on brain activity ano performance in a UH-60 flight simulator AD-A258012 p 119 N93-17817 Adaptive filters for monitoring localized brain activity from surface potential time series DE93-003795 p 217 N93-22774 Sensory sensitivities and discriminations and their roles in aviation AD-A259742 p 224 N93-23479 Theory of synaptic plasticity in visual cortex AD-A260052 p 224 N93-23479 Theory of synaptic plasticity in visual cortex AD-A260052 p 224 N93-23479 Biomagnetic localization from transient quasi-static events DE93-007328 p 253 N93-25186	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160 BRAIN STEM Effects of sustained + Gz stress on BAEP in waked rabbits p 10 A93-13531 Differential effects of long-term hypoxia on norepinephrine turnover in brain stem cell groups p 78 A93-20030 Idaverine, an M2- vs. M3-selective muscairnic antagonist, does not prevent motion sickness in cats p 327 A93-44878 Evoked brain potentials as indicators of a central nervous impairment in a simulated saturation dive to 560 m IDLR-FB-92-14 p 219 N93-24093 BREADBOARD MODELS Engineering verification of the biomass production chamber p 67 N93-13996 BREAKING Heating of fractured bone in rats during readaptation following 14-day suspension p 241 A93-35260 BREATHING Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) IAD-A253994 BREATHING APPARATUS A new protective breathing apparatus p 29 A93-13535 Physiological effects of positive pressure ventilation IAD-A2548091 p 49 N93-12751 Statistically based decompression tables 8: Linear-exponential kinetics	The effect of pain on task performance: A review of the literature [AD-A254336] P 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] P 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] P 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF) [SAE PAPER 921186] Development of the carbon dioxide removal system blower used on Space Station Freedom [SAE PAPER 921188] Conceptual design of a lunar base thermal control system p 68 N93-14003 The relationship between environmental conditions and UH-60 cockpit temperature [AD-A255918] Application of RADTRAN to estimation of doses to persons in enclosed spaces
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A2534359] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory [AD-A255788] p 58 N93-14646 Cognition and the brain [AD-A255483] p 58 N93-14788 AFRRI Reports Radiobiology [AD-A255483] p 80 N93-15965 Effects of terfenadine and diphenhydramine on brain activity ano performance in a UH-60 flight simulator [AD-A258012] p 80 N93-17817 Adaptive filters for monitoring localized brain activity from surface potential time series [DE93-003795] p 217 N93-22774 Sensory sensitivities and discriminations and their roles in aviation [AD-A259742] p 224 N93-23479 Theory of synaptic plasticity in visual cortex AD-A2600521 p 224 N93-23960 Biomagnetic localization from transient quasi-static events [DE93-0073281] p 253 N93-25186 Proceedings of Workshop 1: The Hurnan Brainmap Database	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160 BRAIN STEM Effects of sustained +Gz stress on BAEP in waked rabbits p 10 A93-13531 Differential effects of long-term hypoxia on norepinephrine turnover in brain stem cell groups p 78 A93-20030 Idaverine, an M2- vs. M3-selective muscarinic antagonist, does not prevent motion sickness in cats p 327 A93-44878 Evoked brain potentials as indicators of a central nervous impairment in a simulated saturation dive to 560 m DLR-FB-92-14 p 219 N93-24093 BREADBOARD MODELS Engineering verification of the biomass production chamber p 67 N93-13996 BREADBOARD MODELS Engineering verification of the biomass production chamber p 67 N93-13996 BREATHING Healing of fractured bone in rats during readaptation following 14-day suspension p 241 A93-35260 BREATHING Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) AD-A253394 p 30 N93-10288 BREATHING APPARATUS P 29 A93-13535 Physiological effects of positive pressure ventilation IAD-A254809 p 49 N93-12751 Statistically based decompression Lables 8: Linear-exponential kinetics IAD-A257613 p 120 N93-17926	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] p 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF) [SAE PAPER 921186] p 294 A93-41365 Development of the carbon dioxide removal system blower used on Space Station Freedom [SAE PAPER 921188] p 294 A93-41367 Conceptual design of a lunar base thermal control system p 68 N93-14003 The relationship between environmental conditions and UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230 Ventilation loss in the NASA Space Shuttle crew
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A2534359] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory [AD-A255788] p 58 N93-14646 Cognition and the brain [AD-A255483] p 58 N93-14788 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Effects of terfenadine and diphenhydramine on brain activity ano performance in a UH-60 flight simulator [AD-A258012] p 119 N93-17817 Adaptive filters for monitoring localized brain activity from surface potential time series [DE93-003795] p 217 N93-22774 Sensory sensitivities and discriminations and their roles in aviation [AD-A259742] p 224 N93-23479 Theory of synaptic plasticity in visual cortex AD-A260052] p 224 N93-23960 Biomagnetic localization from transient quasi-static events [DE93-007328] p 253 N93-25186 Proceedings of Workshop 1: The Human Brainmap Database [AD-A260720] p 258 N93-25654 Imaging regional changes in the spontaneous activity of the brain: An extension of the minimum-norm	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160 BRAIN STEM Effects of sustained +Gz stress on BAEP in waked rabbits p 10 A93-13531 Differential effects of long-term hypoxia on norepinephrine turnover in brain stem cell groups p 78 A93-20030 Idaverine, an M2- vs. M3-selective muscarinic antagonist, does not prevent motion sickness in cats p 327 A93-44878 Evoked brain potentials as indicators of a central nervous impairment in a simulated saturation dive to 560 m [DIR-F9-92-14] p 219 N93-24093 BREADBOARD MODELS Engineering verification of the biomass production chamber p 67 N93-13996 BREAKING Healing of fractured bone in rats during readaptation following 14-day suspension p 241 A93-35260 BREATHING Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) AD-A253394 p 30 N93-10288 BREATHING APPARATUS A new protective breathing apparatus p 29 A93-13535 Physiological effects of positive pressure ventilation IAD-A254809 p 49 N93-12751 Statistically based decompression lables 8: Linear-exponential kinetics IAD-A257613 p 120 N93-17926 Comparison of portable crewmember protective	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] p 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF) [SAE PAPER 921186] p 294 A93-41365 Development of the carbon dioxide removal system blower used on Space Station Freedom [SAE PAPER 921188] p 294 A93-41367 Conceptual design of a lunar base thermal control system p 68 N93-14003 The relationship between environmental conditions and UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE9-000758] p 97 N93-17230 Ventilation loss in the NASA Space Shuttle crew protective garments: Potential for heat stress [AD-A258552] p 148 N93-19955
neurochemical systems AD-A253185 p 14 N93-11146 A core facility for the study of neurotoxins of biological origin AD-A254359 p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness NASA-CR-190957 p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging DE92-040244 p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory AD-A255788 p 58 N93-14646 Cognition and the brain AD-A255483 p 59 N93-14788 AFRRI Reports Radiobiology AD-A257231 p 80 N93-15965 Effects of terfenadine and diphenhydramine on brain activity ano performance in a UH-60 flight simulator AD-A258012 p 119 N93-17817 Adaptive filters for monitoring localized brain activity from surface potential time series DE93-003795 p 217 N93-22774 Sensory sensitivities and discriminations and their roles in aviation AD-A259742 p 224 N93-23479 Theory of synaptic plasticity in visual cortex AD-A260052 p 224 N93-23479 Theory of synaptic plasticity in visual cortex AD-A260052 p 224 N93-23960 Biomagnetic localization from transient quasi-static events DE93-007328 p 253 N93-25186 Proceedings of Workshop 1: The Human Brainmap Database AD-A260720 p 258 N93-25654 Imaging regional changes in the spontaneous activity of the brain: An extension of the minimum-norm least-squares estimate	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160 BRAIN STEM Effects of sustained +Gz stress on BAEP in waked rabbits p 10 A93-13531 Differential effects of long-term hypoxia on norepinephrine turnover in brain stem cell groups p 78 A93-20030 Idaverine, an M2- vs. M3-selective muscarinic antagonist, does not prevent motion sickness in cats p 327 A93-44878 Evoked brain potentials as indicators of a central nervous impairment in a simulated saturation dive to 560 m DLR-FB-92-14 p 219 N93-24093 BREADBOARD MODELS Engineering verification of the biomass production chamber p 67 N93-13996 BREADBOARD MODELS Engineering verification of the biomass production chamber p 67 N93-13996 BREATHING Healing of fractured bone in rats during readaptation following 14-day suspension p 241 A93-35260 BREATHING Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) AD-A253394 p 30 N93-10288 BREATHING APPARATUS P 29 A93-13535 Physiological effects of positive pressure ventilation IAD-A254809 p 49 N93-12751 Statistically based decompression Lables 8: Linear-exponential kinetics IAD-A257613 p 120 N93-17926	The effect of pain on task performance: A review of the literature [AD-A254336] P 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] P 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] P 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF) [SAE PAPER 921186] Development of the carbon dioxide removal system blower used on Space Station Freedom [SAE PAPER 921188] Conceptual design of a lunar base thermal control system p 68 N93-14003 The relationship between environmental conditions and UH-60 cockpit temperature [AD-A255918] Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] Ventilation loss in the NASA Space Shuttle crew protective garments: Potential for heat stress [AD-A258552] CAFFEINE Smoking status and body composition, exercise, dietary
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A253359] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory [AD-A255788] p 58 N93-14646 Cognition and the brain [AD-A255788] p 58 N93-14686 Cognition and the brain [AD-A255483] p 59 N93-14788 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Effects of terfenadine and diphenhydramine on brain activity and performance in a UH-60 (light simulator [AD-A258012] p 119 N93-17817 Adaptive filters for monitoring localized brain activity from surface potential time series [DE93-003795] p 217 N93-22774 Sensory sensitivities and discriminations and their roles in aviation [AD-A259742] p 224 N93-23479 Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23479 Theory of synaptic plasticity in visual cortex [AD-A260052] p 253 N93-25186 Proceedings of Workshop 1: The Hurman Brainmap Database [AD-A260720] p 258 N93-25654 Imaging regional changes in the spontaneous activity of the brain: An extension of the minimum-norm least-squares estimate	AD-A261449 p 259 N93-26347 Secondary injury factors and preventative treatment PB93-176014 p 283 N93-27409 The AFOSR Workshop on the Future of EEG and MEG AD-A264338 p 335 N93-30160 BRAIN STEM Effects of sustained +Gz stress on BAEP in waked rabbits p 10 A93-13531 Differential effects of long-term hypoxia on norepinephrine turnover in brain stem cell groups p 78 A93-20030 Idaverine, an M2- vs. M3-selective muscarinic antagonist, does not prevent motion sickness in cats p 327 A93-44878 Evoked brain potentials as indicators of a central nervous impairment in a simulated saturation dive to 560 m [DIR-F9-92-14] p 219 N93-24093 BREADBOARD MODELS Engineering verification of the biomass production chamber p 67 N93-13996 BREAKING Healing of fractured bone in rats during readaptation following 14-day suspension p 241 A93-35260 BREATHING Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) AD-A253394 p 30 N93-10288 BREATHING APPARATUS A new protective breathing apparatus p 29 A93-13535 Physiological effects of positive pressure ventilation IAD-A2548091 p 49 N93-12751 Statistically based decompression tables 8: Linear-exponential kinetics IAD-A2576131 p 120 N93-17926 Comparison of portable crewmember protective breathing equipment (CPBE) designs DOT/FAA/AM-93/6 BRIGHTNESS	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] p 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF) [SAE PAPER 921186] p 294 A93-41365 Development of the carbon dioxide removal system blower used on Space Station Freedom [SAE PAPER 921188] p 294 A93-41367 Conceptual design of a lunar base thermal control system p 68 N93-14003 The relationship between environmental conditions and UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230 Ventilation loss in the NASA Space Shuttle crew protective garments: Potential for heat stress [AD-A258552] p 148 N93-19955 CAFFEINE Smoking status and body composition, exercise, dietary intake, and alcohol/caffeine consumption
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A2534359] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory [AD-A255788] p 58 N93-14646 Cognition and the brain [AD-A255483] p 59 N93-14788 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Effects of terfenadine and diphenhydramine on brain activity and performance in a UH-60 flight simulator [AD-A258012] p 119 N93-17817 Adaptive filters for monitoring localized brain activity from surface potential time series [DE93-003795] p 217 N93-22774 Sensory sensitivities and discriminations and their roles in aviation [AD-A259742] p 224 N93-23479 Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960 Biomagnetic localization from transient quasi-static events [DE93-007328] p 253 N93-25186 Proceedings of Workshop 1: The Human Brainmap Database [AD-A260720] p 258 N93-25654 Imaging regional changes in the spontaneous activity of the brain: An extension of the minimum-norm least-squares estimate [AD-A2615931] p 260 N93-26436 Neuromagnetic investigation of cortical regions	AD-A261449	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] p 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF) [SAE PAPER 921186] p 294 A93-41365 Development of the carbon dioxide removal system blower used on Space Station Freedom [SAE PAPER 921188] p 294 A93-41367 Conceptual design of a lunar base thermal control system p 68 N93-14003 The relationship between environmental conditions and UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230 Ventilation loss in the NASA Space Shuttle crew protective garments: Potential for heat stress [AD-A258552] p 148 N93-19955 CAFFEINE Smoking status and body composition, exercise, dietary intake, and alcohol/caffeine consumption [AD-A250648] p 23 N93-11893
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A253359] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory [AD-A255788] p 58 N93-14646 Cognition and the brain [AD-A255788] p 58 N93-14686 Cognition and the brain [AD-A255483] p 59 N93-14788 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Effects of terfenadine and diphenhydramine on brain activity and performance in a UH-60 (light simulator [AD-A258012] p 119 N93-17817 Adaptive filters for monitoring localized brain activity from surface potential time series [DE93-003795] p 217 N93-22774 Sensory sensitivities and discriminations and their roles in aviation [AD-A259742] p 224 N93-23479 Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23479 Theory of synaptic plasticity in visual cortex [AD-A260052] p 253 N93-25186 Proceedings of Workshop 1: The Hurman Brainmap Database [AD-A260720] p 258 N93-25654 Imaging regional changes in the spontaneous activity of the brain: An extension of the minimum-norm least-squares estimate	AD-A261449	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] p 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF) [SAE PAPER 921186] p 294 A93-41365 Development of the carbon dioxide removal system blower used on Space Station Freedom [SAE PAPER 921188] p 294 A93-41367 Conceptual design of a lunar base thermal control system p 68 N93-14003 The relationship between environmental conditions and UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230 Ventilation loss in the NASA Space Shuttle crew protective garments: Potential for heat stress [AD-A258552] p 148 N93-19955 CAFFEINE Smoking status and body composition, exercise, dietary intake, and alcohol/caffeine consumption
neurochemical systems AD-A253185 p 14 N93-11146 A core facility for the study of neurotoxins of biological origin AD-A254359 p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness NASA-CR-190957 p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging DE92-040244 p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory AD-A255788 p 58 N93-14646 Cognition and the brain AD-A255483 p 59 N93-14788 AFRRI Reports Radiobiology AD-A2572311 p 80 N93-15965 Effects of terlenadine and diphenhydramine on brain activity ano performance in a UH-60 flight simulator AD-A256012 p 119 N93-17817 Adaptive filters for monitoring localized brain activity from surface potential time series DE93-003795 p 217 N93-22774 Sensory sensitivities and discriminations and their roles in aviation AD-A259742 p 224 N93-23479 Theory of synaptic plasticity in visual cortex AD-A260052 p 224 N93-23479 Theory of synaptic plasticity in visual cortex AD-A260052 p 253 N93-25186 Proceedings of Workshop 1: The Human Brainmap Database AD-A260720 p 258 N93-25654 Imaging regional changes in the spontaneous activity of the brain: An extension of the minimum-norm least-squares estimate AD-A2615931 p 260 N93-26436 Neuromagnetic investigation of cortical regions underlying short-term memory	AD-A261449	The effect of pain on task performance: A review of the literature [AD-A254336] P 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] P 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] P 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF) [SAE PAPER 921188] P 294 A93-41365 Development of the carbon dioxide removal system blower used on Space Station Freedom [SAE PAPER 921188] P 294 A93-41367 Conceptual design of a lunar base thermal control system P 68 N93-14003 The relationship between environmental conditions and UH-60 cockpit temperature [AD-A255918] Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] Ventilation loss in the NASA Space Shuttle crew protective garments: Potential for heat stress [AD-A2586852] Smoking status and body composition, exercise, dietary intake, and alcohol/caffeine on physical performance at attitude:
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A2534359] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory [AD-A255788] p 58 N93-14646 Cognition and the brain [AD-A255483] p 58 N93-14686 Cognition and the brain [AD-A255483] p 80 N93-14788 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Effects of terfenadine and diphenhydramine on brain activity and performance in a UH-60 flight simulator [AD-A258012] p 119 N93-17817 Adaptive filters for monitoring localized brain activity from surface potential time series [DE93-003795] p 217 N93-22774 Sensory sensitivities and discriminations and their roles in aviation [AD-A259742] p 224 N93-23479 Theory of synaptic plasticity in visual cortex AD-A260052] p 224 N93-23960 Biomagnetic localization from transient quasi-static events [DE93-007328] p 253 N93-25186 Proceedings of Workshop 1: The Human Brainmap Database [AD-A260720] p 258 N93-25654 Imaging regional changes in the spontaneous activity of the brain: An extension of the minimum-norm least-squares estimate [AD-A261593] p 260 N93-26436 Neuromagnetic investigation of cortical regions underlying short-term memory [AD-A261445] p 261 N93-26521 Analysis of neural systems involved in modulation of memory storage	AD-A261449	The effect of pain on task performance: A review of the literature [AD-A254336] P 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] P 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] P 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF) [SAE PAPER 921186] P 294 A93-41365 Development of the carbon dioxide removal system blower used on Space Station Freedom [SAE PAPER 921188] P 294 A93-41367 Conceptual design of a lunar base thermal control system p 68 N93-14003 The relationship between environmental conditions and UH-60 cockpit temperature [AD-A255918] Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] P 97 N93-17230 Ventilation loss in the NASA Space Shuttle crew protective garments: Potential for heat stress [AD-A258552] CAFFEINE Smoking status and body composition, exercise, dietary intake, and alcohol/caffeine on physical performance at attitude: An attempt to overcome the chaflenge [AD-A246460] P 337 N93-30894 Effects of caffeine on mental performance and mood:
neurochemical systems AD-A253185 p 14 N93-11146 A core facility for the study of neurotoxins of biological origin AD-A254359 p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness INASA-CR-190957 p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging IDE92-040244 p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory AD-A255788 p 58 N93-14646 Cognition and the brain AD-A255483 p 59 N93-14788 AFRII Reports Radiobiology AD-A257231 p 80 N93-15965 Effects of terfenadine and diphenhydramine on brain activity and performance in a UH-60 flight simulator AD-A258012 p 119 N93-17817 Adaptive filters for monitoring localized brain activity from surface potential time series IDE93-003795 p 217 N93-22774 Sensory sensitivities and discriminations and their roles in aviation AD-A259742 p 224 N93-23479 Theory of synaptic plasticity in visual cortex AD-A260052 p 224 N93-23479 Theory of synaptic plasticity in visual cortex AD-A260052 p 224 N93-23479 Theory of synaptic plasticity in visual cortex AD-A260052 p 224 N93-23479 Theory of synaptic plasticity in visual cortex AD-A260052 p 253 N93-25186 Proceedings of Workshop 1: The Human Brainmap Database AD-A260720 p 258 N93-25654 Imaging regional changes in the spontaneous activity of the brain: An extension of the minimum-norm least-squares estimate AD-A261593 p 260 N93-26436 Neuromagnetic investigation of cortical regions underlying short-term memory AD-A261445 p 261 N93-26521 Analysis of neural systems involved in modulation of memory storage AD-A262418 p 283 N93-27654	AD-A261449	The effect of pain on task performance: A review of the literature [AD-A254336] P 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] P 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] P 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF) [SAE PAPER 921186] Development of the carbon dioxide removal system blower used on Space Station Freedom [SAE PAPER 921188] Conceptual design of a lunar base thermal control system p 68 N93-14003 The relationship between environmental conditions and UH-60 cockpit temperature [AD-A255918] Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] Ventilation loss in the NASA Space Shuttle crew protective garments: Potential for heat stress [AD-A258552] CAFFEINE Smoking status and body composition, exercise, dietary intake, and alcohol/caffeine consumption [AD-A250648] Field trial of caffeine on physical performance at attitude: An attempt to overcome the chaflenge [AD-A26460] p 337 N93-30894 Effects of caffeine on mental performance and mood: Implications for aircrew members p 372 N93-32269
neurochemical systems [AD-A253185] p 14 N93-11146 A core facility for the study of neurotoxins of biological origin [AD-A253359] p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness [NASA-CR-190957] p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory [AD-A255788] p 58 N93-14646 Cognition and the brain [AD-A255788] p 59 N93-14788 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Effects of terfenadine and diphenhydramine on brain activity and performance in a UH-60 flight simulator [AD-A258012] p 119 N93-17817 Adaptive filters for monitoring localized brain activity from surface potential time series [DE93-003795] p 217 N93-22774 Sensory sensitivities and discriminations and their roles in aviation [AD-A259742] p 224 N93-23479 Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23479 Theory of synaptic plasticity in visual cortex [AD-A260720] p 258 N93-25186 Proceedings of Workshop 1: The Hurman Brainmap Database [AD-A260720] p 258 N93-25654 Imaging regional changes in the spontaneous activity of the brain: An extension of the minimum-norm least-squares estimate [AD-A261481] p 260 N93-26521 Analysis of neural systems involved in modulation of memory storage [AD-A2624181] p 283 N93-27654 The AFOSR Workshop on the Future of EEG and	AD-A261449	The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] p 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] p 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF) [SAE PAPER 921186] p 294 A93-41365 Development of the carbon dioxide removal system blower used on Space Station Freedom [SAE PAPER 921188] p 294 A93-41367 Conceptual design of a lunar base thermal control system p 68 N93-14003 The relationship between environmental conditions and UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230 Ventilation loss in the NASA Space Shuttle crew protective garments: Potential for heat stress [AD-A258552] p 148 N93-19955 CAFFEINE Smoking status and body composition, exercise, dietary intake, and alcohol/caffeine on physical performance at altitude: An attempt to overcome the challenge [AD-A264260] p 337 N93-30894 Effects of caffeine on mental performance and mood: Implications for aircrew members p 372 N93-32269
neurochemical systems AD-A253185 p 14 N93-11146 A core facility for the study of neurotoxins of biological origin AD-A254359 p 50 N93-12945 The neurochemical and neuropharmacological basis of motion sickness INASA-CR-190957 p 50 N93-13061 A weighted iterative algorithm for neuromagnetic imaging IDE92-040244 p 51 N93-13522 Neuromagnetic investigations of cortical regions underlying short-term memory AD-A255788 p 58 N93-14646 Cognition and the brain AD-A255483 p 59 N93-14788 AFRII Reports Radiobiology AD-A257231 p 80 N93-15965 Effects of terfenadine and diphenhydramine on brain activity and performance in a UH-60 flight simulator AD-A258012 p 119 N93-17817 Adaptive filters for monitoring localized brain activity from surface potential time series IDE93-003795 p 217 N93-22774 Sensory sensitivities and discriminations and their roles in aviation AD-A259742 p 224 N93-23479 Theory of synaptic plasticity in visual cortex AD-A260052 p 224 N93-23479 Theory of synaptic plasticity in visual cortex AD-A260052 p 224 N93-23479 Theory of synaptic plasticity in visual cortex AD-A260052 p 224 N93-23479 Theory of synaptic plasticity in visual cortex AD-A260052 p 253 N93-25186 Proceedings of Workshop 1: The Human Brainmap Database AD-A260720 p 258 N93-25654 Imaging regional changes in the spontaneous activity of the brain: An extension of the minimum-norm least-squares estimate AD-A261593 p 260 N93-26436 Neuromagnetic investigation of cortical regions underlying short-term memory AD-A261445 p 261 N93-26521 Analysis of neural systems involved in modulation of memory storage AD-A262418 p 283 N93-27654	AD-A261449	The effect of pain on task performance: A review of the literature [AD-A254336] P 59 N93-15216 BUTTONS Gloved operator performance study [AD-A256894] P 104 N93-16048 C C-135 AIRCRAFT KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] P 30 N93-10713 CABIN ATMOSPHERES The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF) [SAE PAPER 921186] Development of the carbon dioxide removal system blower used on Space Station Freedom [SAE PAPER 921188] Conceptual design of a lunar base thermal control system p 68 N93-14003 The relationship between environmental conditions and UH-60 cockpit temperature [AD-A255918] Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] Ventilation loss in the NASA Space Shuttle crew protective garments: Potential for heat stress [AD-A258552] CAFFEINE Smoking status and body composition, exercise, dietary intake, and alcohol/caffeine consumption [AD-A250648] Field trial of caffeine on physical performance at altitude: An attempt to overcome the chaflenge [AD-A26460] p 337 N93-30894 Effects of caffeine on mental performance and mood: Implications for aircrew members p 372 N93-32269

CALCIUM METABOLISM Principles of the organization of ca	lcium m	etabolism
·	ρ7	A93-10124
Age-related bone changes Can the adult skeleton recover los	p 93	A93-20655
Carr the again skeleton recover los	p 93	A93-20656
The mechanical control system of		
spaceflight and in aging Effect of exercise and bisphos	p 94 nhonate	A93-20657
balance and bone density during 360 hypokinesia	day an	tiorthostatic A93-28760
Predicting skeletal adaptation	in alte	
environments Prevention of space flight in	p 213 duced	A93-30772 soft tissue
calcification and disuse osteoporosis		
The role of ultraviolet radiation and v	p 214 itamin-D	A93-31545
in medical care during space flights		A93-35216
	in the	myocardial
sarcoplasmic reticulum of restrained pulsed electromagnetic field	p 240	A93-35225
Shortening velocity and calcium s	ensitivit	y of single
fibers from hindlimb suspended musc		s A93-55329
CALCIUM PHOSPHATES	•	
Active synthetic soil [NASA-CASE-MSC-21954-1-NP] CALORIC REQUIREMENTS	p 114	N93-19054
Nutrition and hydration status		
consuming the food packet, survival improved during a simulated survival		
[AD-A258744]	p 128	N93-20384
Trial of emergency ration of the Sp	anish Ai p 368	r Force N93-32247
The effects of an antijet lag diet CAMERAS	p 370	N93-32263
Adaptive strategies of remote exposed to perturbed camera-viewing		
	p 187	A93-27155
Intensified CCD sensor applications displays	for heim p 228	A93-30064
Dark cycle monitoring of biological s		
Station Freedom [SAE PAPER 921393]	p 274	A93-41551
CANADIAN SPACE PROGRAM Space life sciences overview	p 158	N93-21074
CANCER Cancer risk assessment with intern	nittent ex	kposure
On the biological effects of cosmic ra	p 171	A93-28766 demiological
On the biological effects of cosmic rastudies	p 171 ays - Epic p 239	demiological A93-34858
studies Understanding mechanisms of card tracheal epithelial cells in vitro	p 171 ays - Epic p 239	demiological A93-34858 sis using rat
studies Understanding mechanisms of card tracheal epithelial cells in vitro [DE92-013510]	p 171 ays - Epic p 239 sinogene p 13	demiological A93-34858 sis using rat N93-10626
studies Understanding mechanisms of card tracheal epithelial cells in vitro	p 171 ays - Epic p 239 cinogene p 13 p 15	demiological A93-34858 sis using rat N93-10626 N93-11286
studies Understanding mechanisms of card tracheal epithelial cells in vitro [DE92-013510] Clinical types of Hepatitis B Digital mammography, cancer s important for image compression	p 171 ays - Epic p 239 cinogene p 13 p 15 screenin p 221	demiological A93-34858 sis using rat N93-10626 N93-11286 ig: Factors N93-24551
studies Understanding mechanisms of card tracheal epithelial cells in vitro [DE92-013510] Clinical types of Hepatitis B Digital mammography, cancer s	p 171 ays - Epic p 239 cinogene p 13 p 15 screenin p 221 sociated	demiological A93-34858 sis using rat N93-10626 N93-11286 ig: Factors N93-24551
studies Understanding mechanisms of card tracheal epithelial cells in vitro [DE92-013510] Clinical types of Hepatitis B Digital mammography, cancer simportant for image compression Potential human health effects as: frequency electric and magnetic field [PB93-132678]	p 171 ays - Epic p 239 cinogene p 13 p 15 screenin p 221 sociated s p 221	demiological A93-34858 sis using rat N93-10626 N93-11286 rg: Factors N93-24551 with power N93-24590
studies Understanding mechanisms of card tracheal epithelial cells in vitro [DE92-013510] Clinical types of Hepatitis B Digital mammography, cancer simportant for image compression Potential human health effects as frequency electric and magnetic field	p 171 ays - Epic p 239 cinogene p 13 p 15 screenin p 221 sociated s p 221	demiological A93-34858 sis using rat N93-10626 N93-11286 rg: Factors N93-24551 with power N93-24590
studies Understanding mechanisms of card tracheal epithelial cells in vitro [DE92-013510] Clinical types of Hepatitis B Digital mammography, cancer simportant for image compression Potential human health effects as: frequency electric and magnetic field [PB93-132678]	p 171 ays - Epic p 239 cinogene p 13 p 15 screenin p 221 sociated s p 221 of cance p 244 or cance	demiological A93-34858 sis using rat N93-10626 N93-11286 gg: Factors N93-24551 with power N93-24590 er cells N93-25566 er therapy?
studies Understanding mechanisms of card tracheal epithelial cells in vitro [DE92-013510] Clinical types of Hepatitis B Digital mammography, cancer s important for image compression Potential human health effects as frequency electric and magnetic field [PB93-132678] Measuring the metastatic potential	p 171 ays - Epic p 239 cinogene p 13 p 15 screenin p 221 sociated s p 221 of cance p 244 or cance p 253 cancer	demiological A93-34858 sis using rat N93-10626 N93-11286 ag: Factors N93-24551 with power N93-24590 er cells N93-25566 er therapy? N93-25567 detection in
studies Understanding mechanisms of card tracheal epithelial cells in vitro [DE92-013510] Clinical types of Hepatitis B Digital mammography, cancer simportant for image compression Potential human health effects as: frequency electric and magnetic field [PB93-132678] Measuring the metastatic potential Immunoconjugates: Magic bullets f Automated system for early breast mammograms	p 171 ays - Epic p 239 cinogene p 13 p 15 screenin p 221 sociated s p 221 of cance p 244 or cance p 253 cancer	demiological A93-34858 sis using rat N93-10626 N93-11286 g: Factors N93-24551 with power N93-24590 er cells N93-25566 er therapy? N93-25567
studies Understanding mechanisms of card tracheal epithelial cells in vitro [DE92-013510] Clinical types of Hepatitis B Digital mammography, cancer s important for image compression Potential human health effects as frequency electric and magnetic field [PB93-132678] Measuring the metastatic potential Immunoconjugates: Magic bullets f Automated system for early breast mammograms CANOPIES (VEGETATION) Plant canopy transpiration in biorege	p 171 ays - Epic p 239 cinogene p 13 p 15 creenin p 221 sociated s p 221 of cance p 244 or cance p 253 cancer p 253	demiological A93-34858 sis using rat N93-10626 N93-11286 ag: Factors N93-24551 with power N93-24590 er cells N93-25566 er therapy? N93-25567 detection in N93-25568
studies Understanding mechanisms of card tracheal epithelial cells in vitro [DE92-013510] Clinical types of Hepatitis B Digital mammography, cancer s important for image compression Potential human health effects as frequency electric and magnetic field [PB93-132678] Measuring the metastatic potential Immunoconjugates: Magic bullets f Automated system for early breast mammograms CANOPIES (VEGETATION) Plant canopy transpiration in bioregg systems - The link between mecha	p 171 ays - Epic p 239 cinogene p 13 p 15 creenin p 221 sociated s p 221 of cance p 244 or cance p 253 cancer p 253	demiological A93-34858 sis using rat N93-10626 N93-11286 ag: Factors N93-24551 with power N93-24590 er cells N93-25566 er therapy? N93-25567 detection in N93-25568
studies Understanding mechanisms of card tracheal epithelial cells in vitro [DE92-013510] Clinical types of Hepatitis B Digital mammography, cancer s important for image compression Potential human health effects as frequency electric and magnetic field [PB93-132678] Measuring the metastatic potential Immunoconjugates: Magic bullets f Automated system for early breast mammograms CANOPIES (VEGETATION) Plant canopy transpiration in biorege systems - The link between mechamodels [SAE PAPER 921355]	p 171 ays - Epic p 239 cinogene p 13 p 15 creenin p 221 screenic p 221 of cance p 253 cancer p 253 cancer p 253 cenerative nistic ar	demiological A93-34858 sis using rat N93-10626 N93-11286 ag: Factors N93-24551 with power N93-24590 er cells N93-25566 er therapy? N93-25567 detection in N93-25568 elife support and empirical
studies Understanding mechanisms of card tracheal epithelial cells in vitro [DE92-013510] Clinical types of Hepatitis B Digital mammography, cancer s important for image compression Potential human health effects as frequency electric and magnetic field [PB93-132678] Measuring the metastatic potential Immunoconjugates: Magic bullets f Automated system for early breast mammograms CANOPIES (VEGETATION) Plant canopy transpiration in biorege systems - The link between mechamodels [SAE PAPER 921355] Minitron II system for precise control	p 171 ays - Epic p 239 p 239 pinogene p 13 p 15 screenir p 221 sociated s p 221 of cance p 244 or cance p 253 cancer p 253 enerative nistic ar	demiological A93-34858 sis using rat N93-10626 N93-11286 ag: Factors N93-24551 with power N93-24590 er cells N93-25566 er therapy? N93-25566 et therapy? N93-25568 et life support and empirical
studies Understanding mechanisms of card tracheal epithelial cells in vitro [DE92-013510] Clinical types of Hepatitis B Digital mammography, cancer s important for image compression Potential human health effects as frequency electric and magnetic field [PB93-132678] Measuring the metastatic potential Immunoconjugates: Magic bullets f Automated system for early breast mammograms CANOPIES (VEGETATION) Plant canopy transpiration in biorege systems - The link between mecha models [SAE PAPER 921355] Minitron II system for precise control environment Closed Ecological Life Support Systems	p 171 ays - Epic p 239 p 239 p 135 p 15 screenin p 221 sociated s p 221 of cance p 244 or cance p 253 cancer p 253 enerative nistic ar p 306 of of the p 357 stems (25)	demiological A93-34858 sis using rat N93-10626 N93-11286 ag: Factors N93-24551 with power N93-24590 er cells N93-25566 er therapy? N93-25567 detection in N93-25568 elife support and empirical A93-41514 plant growth A93-46470 ELSS) Test
studies Understanding mechanisms of card tracheal epithelial cells in vitro [DE92-013510] Clinical types of Hepatitis B Digital mammography, cancer s important for image compression Potential human health effects as frequency electric and magnetic field [PB93-132678] Measuring the metastatic potential Immunoconjugates: Magic bullets f Automated system for early breast mammograms CANOPIES (VEGETATION) Plant canopy transpiration in biorege systems - The link between mechamodels [SAE PAPER 921355] Minitron II system for precise control environment Closed Ecological Life Support Systacility	p 171 ays - Epic p 239 p 239 p 135 p 15 screenin p 221 sociated s p 221 of cance p 244 or cance p 253 cancer p 253 enerative nistic ar p 306 of of the p 357 stems (25)	demiological A93-34858 sis using rat N93-10626 N93-11286 gg: Factors N93-24551 with power N93-24590 er cells N93-25566 er therapy? N93-25567 detection in N93-25568 elife support and empirical A93-41514 A93-46470
studies Understanding mechanisms of card tracheal epithelial cells in vitro [DE92-013510] Clinical types of Hepatitis B Digital mammography, cancer simportant for image compression Potential human health effects as frequency electric and magnetic field [PB93-132678] Measuring the metastatic potential Immunoconjugates: Magic bullets f Automated system for early breast mammograms CANOPIES (VEGETATION) Plant canopy transpiration in bioregical systems - The link between mechal models [SAE PAPER 921355] Minitron II system for precise control environment Closed Ecological Life Support Systemsian precision of the systems of the system for precise control environment Closed Ecological Life Support Systems of the systems of t	p 171 ays - Epic py 239 p 239 pinogene p 13 p 15 screening p 221 sociated s p 221 of cance p 244 or cance p 253 cancer p 253 cancer p 253 cenerative nistic ar p 306 of the p 357 stems (C p 233 s of s	demiological A93-34858 sis using rat N93-10626 N93-11286 og: Factors N93-24591 with power N93-24590 er cells N93-25566 er therapy? N93-25567 detection in N93-25568 elife support and empirical A93-41514 plant growth A93-46470 ELSS) Test N93-2568
studies Understanding mechanisms of card tracheal epithelial cells in vitro [DE92-013510] Clinical types of Hepatitis B Digital mammography, cancer s important for image compression Potential human health effects as frequency electric and magnetic field [PB93-132678] Measuring the metastatic potential Immunoconjugates: Magic bullets f Automated system for early breast mammograms CANOPIES (VEGETATION) Plant canopy transpiration in biorege systems - The link between mechamodels [SAE PAPER 921355] Minitron II system for precise control environment Closed Ecological Life Support Systacility CANTILEVER BEAMS A preliminary structural analysi inflatable tubular frame structures	p 171 ays - Epic py 239 p 239 p 135 p 15 screenin p 221 sociated of cance p 253 cancer p 253 cancer p 253 enerative nistic ar p 306 of the p 357 stems (C p 233 s of s p 313	demiological A93-34858 sis using rat N93-10626 N93-11286 gg: Factors N93-24550 with power N93-24590 er cells N93-25567 detection in N93-25567 detection in N93-25568 elife support and empirical A93-41514 A93-46470 ELSS) Test N93-22628
studies Understanding mechanisms of card tracheal epithelial cells in vitro [DE92-013510] Clinical types of Hepatitis B Digital mammography, cancer simportant for image compression Potential human health effects as frequency electric and magnetic field [PB93-132678] Measuring the metastatic potential Immunoconjugates: Magic bullets f Automated system for early breast mammograms CANOPIES (VEGETATION) Plant canopy transpiration in bioregical systems - The link between mechal models [SAE PAPER 921355] Minitron II system for precise control environment Closed Ecological Life Support Systemsian precision of the systems of the system for precise control environment Closed Ecological Life Support Systems of the systems of t	p 171 ays - Epic py 239 p 239 pinogene p 13 p 15 screening p 221 of cancer p 221 of cancer p 253 cancer p 253 cenerative nistic ar p 306 of of the p 357 stems (C p 233 s of s p 313 acce Cen	demiological A93-34858 sis using rat N93-10626 N93-11286 og: Factors N93-24591 with power N93-24590 er cells N93-25566 or therapy? N93-25567 detection in N93-25568 e life support and empirical A93-41514 plant growth A93-46470 ELSS) Test N93-2568
studies Understanding mechanisms of card tracheal epithelial cells in vitro [DE92-013510] Clinical types of Hepatitis B Digital mammography, cancer s important for image compression Potential human health effects as frequency electric and magnetic field [PB93-132678] Measuring the metastatic potential Immunoconjugates: Magic bullets f Automated system for early breast mammograms CANOPIES (VEGETATION) Plant canopy transpiration in bioregs systems - The link between mecha models [SAE PAPER 921355] Minitron II system for precise control environment Closed Ecological Life Support Systemic Systems - The link between mecha models [SAE PAPER 921355] Minitron II system for precise control environment Closed Ecological Life Support Systemic Systems - The link between mecha models [SAE PAPER 921355] Minitron II system for precise control environment Closed Ecological Life Support Systemic Sy	p 171 ays - Epic py 239 p 239 pinogene p 13 p 15 screening p 221 sociated s p 221 sociated s p 221 of cance p 253 cancer p 253 cancer p 253 enerative nistic ar p 306 of f the p 357 stems (C) p 233 s of s p 313 ace Cer p 154	demiological A93-34858 sis using rat N93-10626 N93-11286 ag: Factors N93-24551 with power N93-24590 er cells N93-25566 er therapy? N93-25567 detection in N93-25568 elife support and empirical A93-41514 plant growth A93-46470 PLSS) Test N93-22628 pace-based N93-27849 tter A93-28711
studies Understanding mechanisms of card tracheal epithelial cells in vitro [DE92-013510] Clinical types of Hepatitis B Digital mammography, cancer simportant for image compression Potential human health effects as frequency electric and magnetic field [PB93-132678] Measuring the metastatic potential Immunoconjugates: Magic bullets f Automated system for early breast mammograms CANOPIES (VEGETATION) Plant canopy transpiration in bioregrystems - The link between mechanodels [SAE PAPER 921355] Minitron II system for precise control control of the control of	p 171 ays - Epic py 239 p 239 pinogene p 13 p 15i screening p 221 of cancer p 221 of cancer p 253 cancer p 253 cenerative nistic ar p 306 of of the p 357 stems (C p 233 s of s p 313 ace Cer p 154 at Kenn p 166	demiological A93-34858 Sis using rat N93-10626 N93-11286 og: Factors N93-24551 with power N93-24590 er cells N93-25566 or therapy? N93-25567 detection in N93-25568 e life support and empirical A93-41514 plant growth A93-46470 ELSS) Test N93-2568 pace-based N93-27849 other N93-28711 ed Space A93-28711
studies Understanding mechanisms of card tracheal epithelial cells in vitro [DE92-013510] Clinical types of Hepatitis B Digital mammography, cancer simportant for image compression Potential human health effects as: frequency electric and magnetic field [PB93-132678] Measuring the metastatic potential Immunoconjugates: Magic bullets f Automated system for early breast mammograms CANOPIES (VEGETATION) Plant canopy transpiration in biorege systems - The link between mechamodels [SAE PAPER 921355] Minitron II system for precise control environment Closed Ecological Life Support Systemitinate tubular frame structures CAPE KENNEDY LAUNCH COMPLEX Health services at the Kennedy Sp	p 171 ays - Epic py 239 p 239 pinogene p 13 p 15 screening p 221 of cance p 244 or cance p 253 cancer p 253 cancer p 253 cancer p 357 stems (C p 233 s of s p 313 ace Cer p 154 tt Kenn p 166 chal heal	demiological A93-34858 sis using rat N93-10626 N93-11286 ag: Factors N93-24551 with power N93-24590 er cells N93-25566 ar therapy? N93-25568 alife support and empirical A93-41514 plant growth A93-46170 signal N93-27849 signal N93-27849 signal N93-27849 signal N93-28711 edy Space A93-28711 thy program
studies Understanding mechanisms of card tracheal epithelial cells in vitro [DE92-013510] Clinical types of Hepatitis B Digital mammography, cancer simportant for image compression Potential human health effects as frequency electric and magnetic field [PB93-132678] Measuring the metastatic potential Immunoconjugates: Magic bullets f Automated system for early breast mammograms CANOPIES (VEGETATION) Plant canopy transpiration in bioregrystems - The link between mechanodels [SAE PAPER 921355] Minitron II system for precise control control of the control of	p 171 ays - Epic py 239 p 239 pinogene p 13 p 15 ccreening p 221 of cancer p 244 of cancer p 253 cancer p 306 p 357 stems (C p 233 s of s p 313 cace Cer p 154 at Kenn p 166 ntal heal	demiological A93-34858 sis using rat N93-10626 N93-11286 ag: Factors N93-24551 with power N93-24568 r therapy? N93-25566 ar therapy? N93-25568 ag: life support and empirical A93-45114 plant growth A93-46470 EELSS) Test N93-22628 N93-27849 ag: life support and l
studies Understanding mechanisms of card tracheal epithelial cells in vitro [DE92-013510] Clinical types of Hepatitis B Digital mammography, cancer s important for image compression Potential human health effects as: frequency electric and magnetic field [PB93-132678] Measuring the metastatic potential Immunoconjugates: Magic bullets f Automated system for early breast mammograms CANOPIES (VEGETATION) Plant canopy transpiration in bioregs systems - The link between mechamodels [SAE PAPER 921355] Minitron II system for precise control environment Closed Ecological Life Support Systemior Systems - The link between the control of t	p 171 ays - Epic ays - Epic p 239 p 239 p 15 screening p 241 sociated s p 221 of cancer p 244 or cancer p 253 cancerr p 253 cancer p 253 cancer p 253 cancer p 357 C p 233 s of s p 313 ace Cer p 154 at Kenn p 166 earch at p 166 earch at p 154	demiological A93-34858 sis using rat N93-10626 N93-11286 ag: Factors N93-24590 er cells N93-25566 er therapy? N93-25566 er therapy? A93-25567 detection in N93-25568 alife support and empirical A93-41514 plant growth A93-46176 kg: N93-22628 N93-27849 alifer A93-28711 edy Space A93-28712 the John F. A93-28714
studies Understanding mechanisms of card tracheal epithelial cells in vitro [DE92-013510] Clinical types of Hepatitis B Digital mammography, cancer s important for image compression Potential human health effects as: frequency electric and magnetic field [PB93-132678] Measuring the metastatic potential Immunoconjugates: Magic bullets f Automated system for early breast mammograms CANOPIES (VEGETATION) Plant canopy transpiration in bioregs systems - The link between mechamodels [SAE PAPER 921355] Minitron II system for precise control environment Closed Ecological Life Support Systemior Systems - The link between the control of t	p 171 ays - Epic ays - Epic p 239 p 239 p 130 p 150 p 130 p 150 p 221 of cancer p 224 of cancer p 253 cancer p 154 p 357 stems (C p 233 s of s p 313 cace Cer p 154 t Kenn p 166 ntal heal p 166 earch at p 154 pperation	demiological A93-34858 sis using rat N93-10626 N93-11286 ag: Factors N93-24590 er cells N93-25566 ar therapy? N93-25566 ar therapy? A93-25568 a life support and empirical A93-41514 plant growth A93-46470 ELSS) Test N93-22628 pace-based N93-27849 after A93-28713 the John F.

safety data sheets [NASA-TM-108582]

CAPILLARIES

pressure

p 172 N93-20998

Transcapillary fluid responses to lower body negative ressure p 380 A93-49292

	CARBOXYHEMOGLOBIN
0.50	,
CAPILLARIES (ANATOMY) Effect of simulated weightlessness on microvessel permeability of various organs in rabbits	The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO
p 199 A93-30438 Direct measurement of capillary blood pressure in the human lip p 279 A93-40550	[DE92-019411] p 5 N93-11630 The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf
CAPILLARY FLOW Evaluation of capillary electrophoresis for in-flight ionic	proteins [DE93-002940] p 115 N93-19751
contaminant monitoring of SSF potable water [SAE PAPER 921268] p 300 A93-41438	CARBON DIOXIDE REMOVAL Development of the carbon dioxide removal system
Higher capillary filtration rate in the calves of endurance-trained subjects during orthostatic stress p 401 A93-55165	blower used on Space Station Freedom [SAE PAPER 921188] p 294 A93-41367 Sabatier carbon dioxide reduction system for Space
CARBAMATES (TRADENAME) The effects of pyridostigmine bromide on visual performance p 87 A93-18034	Station Freedom SAE PAPER 921189 p 294 A93-41368
CARBOHYDRATE METABOLISM Differential effects of insulin resistance on leucine and	Comparative test data assessment and simplified math modelling for Sabatier CO2 reduction subsystem [SAE PAPER 921228] p 296 A93-41402
glucose kinetics in obesity p 152 A93-27224 Facilitation of levodopa-induced dyskinesias by dietary	Evaluation of the carbon dioxide removal assembly requirements for the Space Station Freedom in the Manned
carbohydrates p 203 A93-33029 Muscle glucose uptake in the rat after suspension with single hindlimb weight bearing p 326 A93-44178	Tended Capability through Permanently Manned Capability configurations
Regulation of the carbohydrate metabolism in humans residing in the North p 384 A93-51117	SAE PAPER 921231 p 297 A93-41405 Development of a regenerable metal oxide sheet matrix
Effect of insulin-like factors on glucose transport activity in unweighted rat skeletal muscle p 399 A93-55458	CO2 removal system SAE PAPER 921298 p 302 A93-41463
Influence of the Cold Buster (tm) sports bar on heat debt, mobilization and oxidation of energy substrates	Portable life support system regenerative carbon dioxide and water vapor removal by metal oxide absorbents
AD-A262762 p 285 N93-28939 Nutrition, Metabolic Disorders and Lifestyle of Aircrew AGARD-CP-533 p 367 N93-32240	preprototype hardware development and testing SAE PAPER 921299 p 303 A93-41464 Operation of a breadboard
CARBOHYDRATES A balanced carbohydrate:protein diet in the management	liquid-sorbent/membrane-contactor system for removing carbon dioxide and water vapor from air
of Parkinson's disease p 153 A93-27918 Effects of dietary amino acids, carbohydrates, and	SAE PAPER 921321 p 304 A93-41483 Automation of closed environments in space for human
choline on neurotransmitter synthesis p 204 A93-33031 Effects of their nutrient precursors on the synthesis and	comfort and safety NASA-CR-192045 p 138 N93-17971
release of serotonin, the catecholamines, and acetylcholine - Implications for behavioral disorders	A membrane-based subsystem for water-vapor recovery from plant-growth chambers [NASA-CR-177602] p 149 N93-20065
p 204 A93-33033 Nutrition and hydration status of aircrew members	Technologies for ECLSS evolution p 311 N93-27720
consuming the food packet, survival, general purpose, improved during a simulated survival scenario [AD-A258744] p 128 N93-20384	JSC ECLSS R/T program overview p 312 N93-27725
[AD-A258744] p 128 N93-20384 Correlation of life-style and dietary concomitants of Greek pilots with serum analytes p 369 N93-32256	CARBON FIBERS Finite element analysis of a composite artificial ankle p 174 N93-22189
CARBON Determination of organic carbon and ionic accountability	CARBON ISOTOPES Methane transport mechanisms and isotopic
of various waste and product waters derived from ECLSS water recovery tests and Spacelab humidity condensate [SAE PAPER 921313] p 303 A93-41475	fractionation in emergent macrophytes of an Alaskan tundra lake p 38 A93-16544
Methods development for total organic carbon accountability	CARBON MONOXIDE Heart and lung alterations in neonatal rats exposed to CO or high altitude p 77 A93-20027
[NASA-CR-184438] p 40 N93-12949 CARBON DIOXIDE	Mathematical model for the exchange of gases in the lungs with special reference to carbon monoxide
On a possible role of carbon dioxide in the genesis of the hyperbaric neural syndrome p 200 A93-31190 Effects of CO2 and photosynthetic photon flux on yield,	Variations of time-to-incapacitation and
gas exchange and growth rate of Lactuca sativa L. 'Waldmann's Green' p 397 A93-52723	carboxyhemoglobin values in rats exposed to two carbon monoxide concentrations [DOT/FAA/AM-93/7] p 274 N93-27152
Resource capture by single leaves [DE92-015847] p 5 N93-10461	Carbon monoxide exposure of subjects with documented cardiac arrhythmias
The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO	PB93-179943 p 337 N93-30890 CARBON MONOXIDE POISONING Variations of time-to-incapacitation and
[DE92-019411] p 5 N93-11630 Submarine Advanced Integrated Life Support system	carboxyhemoglobin values in rats exposed to two carbon monoxide concentrations
(SAILS) program AD-A253564 p 32 N93-11812	DOT/FAA/AM-93/7 p 274 N93-27152 CARBON TETRACHLORIDE
The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf proteins	Anaerobic microbial transformation of aromatic hydrocarbons and mixtures of aromatic hydrocarbons and halogenated solvents
[DE93-002940] p 115 N93-19751 Membrane technology: A search for membranes for	AD-A255696 p 42 N93-14557 CARBON 14
submarine atmosphere control [AD-A260581] p 266 N93-25904	New techniques for positron emission tomography in the study of human neurological disorders
Regulation of alternative CO2 fixation pathways in procaryotic and eucaryotic photosynthetic organisms [DE93-012109] p 276 N93-29181	[DE93-002098] p 95 N93-15900 CARBONACEOUS CHONDRITES The origin of the polycyclic aromatic hydrocarbons in
Growing wheat to maturity in reduced gas pressures [NASA-CR-193245] p 277 N93-29216	meteorites p 110 A93-17983 Formation of reduced carbonaceous matter in basalts
CARBON DIOXIDE CONCENTRATION The life span of the biosphere revisited p 149 A93-21847	and xenoliths - Reaction of C-O-H gases on olivine crack surfaces space biological evolution p 411 A93-53286
Rett syndrome - Stimulation of endogenous biogenic amines p 164 A93-28697	Carbonaceous chondrites and the origin of life p 412 A93-55997
Recent regenerative ECLSS technology developments in Europe [SAE PAPER 921332] p 304 A93-41493	CARBONYL COMPOUNDS Biological conversion of synthesis gas culture
Plant growth modeling at the JSC variable pressure growth chamber - An application of experimental design	development [DE92-001279] p 6 N93-12482 CARBOXYHEMOGLOBIN
[SAE PAPER 921356] p 307 A93-41515 The Minitron system for growth of small plants under	Carboxyalkylated hemoglobin as a potential blood substitute
controlled environment conditions p 358 A93-46471	[AD-A252329] p 22 N93-11561

Carbon monoxide exposure of subjects with documented Influence of ten-day head-down bedrest on human Alanine increases blood pressure during hypotension cardiac arrhythmias p 203 A93-33027 carotid baroreceptor-cardiac reflex function [PB93-1799431 p 161 A93-28678 p 337 N93-30890 Hemodynamic status of humans during a graded Microgravity and orthostatic intolerance - Carotid p 248 A93-35221 Cancer risk assessment with intermittent exposure hemodynamics and peripheral responses Informative value of the rerespiration method for p 278 A93-39716 p 171 A93-28766 evaluating the functional resources of the cardiorespiratory Single particle effects, Biostack, and risk evaluation -Response of genioglossus EMG activity to passive tilt system during the simulation of certain flight factors p 279 A93-41118 Studies on the radiation risk from Galactic cosmic rays p 248 A93-35222 in men **CAROTID SINUS REFLEX** p 202 A93-32243 Features of the effect of hypokinesia on cardiac activity Gene transcription and electromagnetic fields Carotid-cardiac baroreflex response and LBNP tolerance in rats with high and low spontaneous motor activity IDE93-0108541 p 276 N93-28848 following resistance training p 164 A93-28696 p 240 A93-35224 CARDIAC OUTPUT Enflanced carotid-cardiac baroreflex response and Functional state of the cardiovascular system of the Pulmonary diffusing capacity, capillary blood volume, elimination of orthostatic hypotension 24 hours after acute cosmonauts of the sixth primary mission on the Mir and cardiac output during sustained microgravity p 216 A93-32781 exercise in paraplegics p 249 A93-35238 p 386 A93-52617 Response of genioglossus EMG activity to passive tilt Ultrasonic location of gas bubbles in the vascular bed Effect of hemorrhage on cardiac output, vasopressin, in men p 279 A93-41118 of a person working in a space suit p 262 A93-35239 aldosterone, and diuresis during immersion in men CASE HISTORIES INASA-TM-1039491 Efficiency of using iterative hypoxic hypercapnic stimuli CSERIAC case studies in ergonomics information CARDIAC VENTRICLES for enhancing cardiorespiratory reserves under the effect p 349 A93-42850 analysis --- for crew systems Hypoxia-induced downregulation of beta-adrenergic of radial accelerations p 249 A93-35244 CASUÁLTIES receptors in rat heart p 37 A93-14973 Norepinephrine content in discrete brain areas and Analysis of injuries following the crash of Avianca Flight CARDIOGRAPHY neurohypophysial vasopressin in rats after a 9-d spaceflight p 382 A93-49562 Value of frequency domain correlative cardiography CATALOGS (PUBLICATIONS) p 273 A93-41167 (SLS-1) (FCG) to early diagnosis of coronary heart diseas Space Station Freedom biomedical monitoring and Effects of dynamic exercise on cardiovascular regulation p 10 A93-13705 countermeasures: Biomedical facility hardware catalog during lower body negative pressure p 246 N93-26709 Cardiovascular stress test [NASA-CR-193156] with non-invasive p 281 A93-41168 p 221 N93-24399 CATAL YSIS Baroreflex function and cardiac structure with moderate CARDIOLOGY Ribozymes - A distinct class of metalloenzymes endurance training in normotensive men Civil aviation and cardiology - Admission rules and p 332 A93-44182 p 398 A93-54163 follow-up of the technical flying personnel of TAP-Air Group II intron RNA catalysis of progressive nucleotide Changes in the central hemodynamics under Portugal insertion - A model for RNA editing p 398 A93-55292 D 164 A93-28699 antiorthostasis in humans with different blood circulation CARDIOVASCULAR SYSTEM p 359 A93-46967 types and physical training levels The responses of cardiovascular during head-up tilt plus Isolation of new ribozymes from a large pool of random Arterial pulse pressure and vasopressin release in p 400 A93-56548 lower body negative pressure p 9 A93-11690 sequences humans during lower body negative pressure low-intensity CATALYTIC ACTIVITY effect of electromagnetic p 360 A93-47096 Atrial natriuretic peptide degradation by CPA47 cells -Evidence for a divalent cation-independent cell-surface millimeter-wave radiation on the rat cardiovascular Hemodynamic effects of altitude exposure and oxygen p 2 A93-12861 administration in chronic obstructive pulmonary disease p 155 A93-28726 Application of system identification to research on proteolytic activity p 383 A93-49571 cardiovascular regulative function p 3 A93-13544 CATARACTS Study of the relationship between therapeutic effects Prediction of maximal oxygen uptake from submaximal Accelerated heavy particles and the lens. VIII and control parameters of ECP using a simulation exercise testing in aerobically fit and nonfit men Comparisons between the effects of acute low doses of method p 385 A93-52304 iron ions (190 keV/microns) and argon ions (88 p 11 A93-13716 Role of atrial natriuretic peptide in systemic responses Review of the space medico-engineering research in p 216 A93-32784 p 44 A93-14968 to acute isotonic volume expansion China A fiber optic probe for the detection of cataracts Influence of graded dehydration on hyperthermia and [AAS PAPER 91-623] p 402 A93-55802 p 254 N93-25593 CATECHOLAMINE cardiovascular drift during exercise Metabolic factors influencing myocardial recovery from Rat cardiovascular responses to whole body suspension The effect of the activation of the sympatho-adrenal Head-down and non-head-down tilt A93-14974 system on catecholamine inactivation in rat lungs p 37 IAD-A2523761 p 14 N93-10796 Hematological p 2 A93-12864 changes in space microgravity Assessment of programs in space biology and environments p 46 A93-15528 Effect of high temperature on the beta-adrenoreceptor medicine The cardiovascular system p 46 A93-15530 [NASA-CR-190930] activity and the catecholamine synthesis p 41 N93-13327 Echocardiographic evaluation of the cardiovascular effects of short-duration spaceflight p 87 A93-17551 p 39 A93-16750 AFRRI Reports --- Radiobiology Dopamine release in rat striatum - Physiological coupling LAD-A2572311 p 80 N93-15965 Preclinical and n 152 A93-27050 to tyrosine supply cardiovascular Nifedipine for treatment of high altitude pulmonary occupation-related pathological symptoms in helicopter Relationship between pituitary ACTH content and p 91 A93-18416 p 95 N93-16187 hypothalamic catecholamines in the rat IAD-A2569591 Psychophysiological studies of acute hypoxic hypoxia Systemic and pulmonary hypertension after resuscitation o 203 A93-33028 Effects of dietary amino acids, carbohydrates, and p 91 A93-18417 with cell-free hemoglobin Method of selection of astronauts cardiovascular p 120 N93-17900 choline on neurotransmitter synthesis IAD-A2581851 p 204 A93-33031 regulative function under simulated weightlessness A review of models of the human temperature regulation p 91 A93-19995 Tyrosine - Effects on catecholamine release system p 204 A93-33038 Posture and the circulation - The age effect [AD-A258023] p 120 N93-17918 Publications of the Space Physiology and Countermeasures Program, Cardiopulmonary Discipline: n 93 A93-20653 Endocrinology of space/motion sickness Cardiovascular physiology in space flight p 403 A93-55935 p 93 A93-20654 CATHETERIZATION The influence of dietary counseling and cardiac Cardiovascular responses to lower body negative INASA-CR-44751 n 123 N93-18376 catheterization on lipid profiles in American militar pressure in trained and untrained older men Cardiopulmonary discipline science plan p 115 A93-21686 Blood volume reduction counteracts fluid shifts in water p 125 N93-19648 p 369 N93-32259 [NASA-TM-108040] aviators CATHODE RAY TUBES Monitoring of cardiovascular parameters during the p 118 A93-25206 AustroMir space flight p 220 N93-24367 Low-cost monochrome CRT helmet display p 228 A93-30061 Increased release of brain serotonin reduces MAC to VAX connectivity: Heartrate spectral analysis stem p 254 N93-25594 vulnerability to ventricular fibrillation in the cat Advances in miniature projection CRTs for helmet system p 229 A93-30066 p 151 A93-26500 displays Vascular uptake of rehydration fluids in hypohydrated Influence of posture and prolonged head-down tilt on men at rest and exercise Comparison of CRT display measurement techniques cardiovascular reflexes p 161 A93-28677 [NASA-TM-103942] p 255 N93-26133 p 229 A93-30067 Cardiovascular response to lower body negative The physiological limitations of man in the high G The locator system for wandering individuals pressure before, during, and after ten days head-down till bedrest p 162 A93-28681 p 319 N93-28861 [NASA-TM-104754] p 31 N93-11649 Lipodystrophies in the French military flight crew Low-cost helmet-mounted displays p 362 N93-32249 The effects of a 10-day period of head-down tilt on the p 317 N93-28479 IAD-A2626161 Blood lipids in aircrew recruits and in RAF aviators cardiovascular responses to intravenous saline loading CATHODES p 362 N93-32251 p 163 A93-28686 Submarine Advanced Integrated Life Support system Cardiovascular risk factors in an Italian Air Force Head-down tilt bedrest: HDT'88 - An international (SAILS) program p 362 N93-32252 population: Preliminary report collaborative effort in integrated systems physiology [AD-A253564] p 32 N93-11812 Cardiovascular Risk Factors (CVRF) in Spanish pilots p 164 A93-28689 CATIONS with coronary artery disease demonstrated by angiographic Cardiovascular physiology - Effects of microgravity Changes in the osmolality, p 362 N93-32253 p 166 A93-28719 concentration, and protein structure of blood plasma under Results and management of pathological lipoprotein Cardiovascular responses to upright tilt at a simulated extreme conditions p 200 A93-31188 concentrations and other cardiovascular risk factors in p 212 A93-30281 altitude of 3,700 m in men military pilots of the German Federal Armed Forces Evolving concepts of lunar architecture: The potential Cardiovascular responses during recovery from exercise p 363 N93-32254 p 212 A93-30282 p 107 N93-17447 of subselene development and thermal stress Biological parameters and cardiovascular risk factors

with the flying personnel of the Belgian Armed Forces

Modulation of respiratory responses to carotid sinus

CAROTID SINUS BODY

nerve stimulation by brain hypoxia

p 370 N93-32260

p 79 A93-20038

CELESTIAL BODIES

CELL DIVISION

Life in and from space

novel gravitational fields

Early amphibian (anuran) morphogenesis is sensitive to

p 237 N93-24373

p 156 A93-28745

Cardiovascular problems during space flight

event over a defined period - Impact of treatment

Hypertension and the probability of an incapacitating

p 213 A93-30445

p 215 A93-32777

Rotating-wall vessel coculture prelude to tissue modeling - microgravity	
Altering the position of the fire	st horizontal cleavage
furrow of the amphibian (Xenopus) survival Nerves and tissue repair	p 272 A93-39717
[AD-A255299]	p 53 N93-14535
Effects of maglev-spectrum ma CEM T-lymphoblastoid huma: differentiation	
[DE92-041134]	p 96 N93-16552
CELL MEMBRANES (BIOLOGY) Purification and properties of an solfataricus	ATPase from Sulfolobus p 201 A93-32115
Ion transport across membrane organism to ionizing radiation I	s under exposure of the
[ISBN 5-12-001601-4] Comparison of membrane A	p 243 A93-35679
halophiles isolated from ancient s	
Cryoprotective properties of cryolithosphere and its role in exc	biology
Ozone - A new aspect of its ef	
CELLS	p 398 A93-54971
Caenorhabditis elegans - A m biology studies	p 80 A93-20665
CELLS (BIOLOGY) Organic models of interstellar c	
The current status and prospe	p 35 A93-11847 cts in the study of cell
physiology under microgravity Model for the computation of	p 38 A93-16001
systems Altered cell function in microgra	p 97 A93-17673
The pituitary - Aging and space	p 79 A93-20660
Short-term microgravity to is	p 79 A93-20661
cells	p 111 A93-21901
On a possible role of carbon d the hyperbaric neural syndrome	ioxide in the genesis of p 200 A93-31190
Cultivation of Hamster Kidney Culture System in space (Spacela	cells in a Dynamic Cell
Melatonin and its precurs retinoblastoma cells - Effect of so	ors in Y79 human
Mechanical forces and their s stimulating cell growth in vitro Two circadian oscillators in one	second messengers in p 204 A93-33043 s cell
Effect of an attenuated geomag	
composition of the epithelial-spe testes	p 240 A93-35229
Possible biological significar equipotential surfaces of gravity-f	orce tidal variations
Response of a mouse hybridom	
Intracellular proteins produced	p 328 A93-44928 by mammalian cells in
response to environmental stress Prolactin-induced mitogenesis	
ovariectomized rats Cell wall and enzyme changes of	p 329 A93-44934 during the graviresponse
of the leaf-sheath pulvinus of oat	(Avena sativa)
Dynamics of auxin movemen	
leaf-sheath pulvinus of oat (Aven	p 358 A93-46472
The internal dynamics of slow	p 375 A93-49208
The fast rotating clinostat - gravitational biology and a comp	arison of ground-based
and flight experiment results Altered gravity conditions affe	p 376 A93-49212 ct early EGE-induced
signal transduction in human epic	
Method for culturing mamma bioreactor	
[NASA-CASE-MSC-21293-2] Method for culturing mammalia	p 4 N93-10109 an cells in a horizontally
rotated bioreactor (NASA-CASE-MSC-21294-2)	p 5 N93-10110
Interdisciplinary research and plant sciences	
[DE92-015919] Physiological analyses of the a neurochemical systems	p 5 N93-10835 fferents controlling brain
[AD-A253185] Establishing laboratory standa	p 14 N93-11146 ards for biological flight
experiments [NASA-CR-184402]	p 40 N93-12901
	,

```
CEREBRAL VASCULAR ACCIDENTS
                                                               Centrifuges - Evolution of their uses in plant gravitational
   Assessment of programs in space biology and
                                                             biology and new directions for research on the ground
 modicine
 [NASA-CR-190930]
                                                                                               p 376 A93-49211
                                     p 41 N93-13327
                                                             and in spaceflight
   Effects of spaceflight on the proliferation of jejunal
                                                               Assessment of programs in space biology and
  mucosal cells
                                                              medicine
 [NASA-CR-191303]
                                     p 51 N93-13449
                                                             INASA-CR-1909301
                                                                                                 p 41 N93-13327
   Nerves and tissue repair
                                                               Possible biomedical applications and limitations of a
  IAD-A2552991
                                     p.53 N93-14535
                                                              variable-force centrifuge on the lunar surface: A research
   Mechanisms of microwave induced damage in biologic
                                                                                                 p 83 N93-17458
                                                              tool and an enabling resource
                                                               Acquisition of physiological data during G-induced Loss
  AD-A2557991
                                     p 42 N93-14648
                                                              of Consciousness (G-LOC)
   High density cell culture system
                                                                                                p 335 N93-30400
                                                             [AD-A264492]
 [NASA-CASE-MSC-22060-1]
                                    p 114 N93-19037
                                                               Rotational speed control
                                                                                                p 365 N93-31457
   Computer based analysis and synthesis of retinal
                                                                Vibration isolation
                                                                                                p 365 N93-31458
  function
                                                           CENTRIFUGING STRESS
 AD-A260514
                                                               Myocardial infarction occurring at the conclusion of
   Mechanical stimulation of skeletal muscle mitigates
                                                             centrifuge training in a 37-year-old aviator
 glucocorticoid induced decreases in prostaglandin
                                                                                                 p 89 A93-18044
                                                               The effect of G-LOC on psychomotor performance and
  INASA-CR-1930401
                                    n 222 N93-24763
                                                                                               p 130 A93-25205
   Measuring the metastatic potential of cancer cells
                                                               Effect of chronic centrifugation on in vitro fertilization
                                    p 244 N93-25566
                                                             and early development in mice ova p 375 A93-49179
   Effect of cytoskeletal reagents on stretch activated ion
                                                           CERAMICS
  channels
                                                               Development of physical and mathematical models for
 AD-A2610891
                                    p 245 N93-25764
                                                             the Porous Ceramic Tube Plant Nutrification System
   Comparative mutagenesis of human cells in vivo and
                                                              (PCTPNS)
  n vitro
                                                             INASA-TM-1075511
                                                                                                  p 4 N93-10085
                                    p 276 N93-28651
 |DE93-012269|
                                                               The design of mechanically compatible fasteners for
   Biophysical and biochemical mechanisms in synaptic
                                                                                                p 253 N93-25569
                                                             human mandible reconstruction
  ransmitter release
                                                           CEREBELLUM
                                    p 336 N93-30613
  AD-A2648291
                                                               Neurophysiology of motion sickness
   The Gordon Research Conference on Pineal Cell
                                                                                                p 399 A93-55932
  Biology
                                                           CEREBRAL CORTEX
 IAD-A2648401
                                    p 337 N93-30904
                                                               Cortical localization of cognitive function by regression
   Investigation of laser-induced retinal damage
                                                             of performance on event-related potentials
  IAD-A2640961
                                           N93-31094
                                                                                                  p 9
                                    p 338
   Neurophysiological analysis of
                                    circadian rhythm
                                                               Observation of change in cytochrome oxidase content
  entrainment
                                                             of cerebral cortex in rat under +Gz stress
  AD-A2646811
                                     p 361 N93-32018
                                                                                                  p 3 A93-13543
   Mechanisms of microwave induced damage in biologic
                                                               Effects of antimotion sickness drug mixture B on
  materials
                                                             ultrastructures of cerebral and cerebellar cortexes in
                                                                                                p 10 A93-13704
  IAD-A2644151
                                    p 358 N93-32035
                                                             suspended rabbits
CENOZOIC ERA
                                                               The effect of elevated nitrogen pressure on motor activity
   First skulls of the early Eocene primate Shoshonius
                                                             and relationships among brain centers in monkeys
 cooperi and the anthropoid-tarsier dichotomy
                                                                                                 p 75 A93-18289
                                    p 202 A93-32670
                                                               Electrophysiological and ultrastructural aspects of the
CENTER OF MASS
                                                             effect of high-pressure oxygen on the sensomotor cortex
    An automated method for determining mass properties
 1AD-A2599241
                                    p 236 N93-24441
                                                               Normalization of cell responses in cat striate cortex
   Helmeted head and neck dynamics under whole-body
                                                                                                p 154 A93-28700
  vibration
                                    p 264 N93-25531
                                                               A method of multivariate analysis of data in the study
CENTRAL NERVOUS SYSTEM
                                                             of the effects of space flight factors on the rat brain neuron
   Functional state of the central nervous system of guinea
                                                                                               p 155 A93-28727
                                                             structure
  pigs after a prolonged stay in artificial atmospheres with
                                                               Quantitative autoradiographic analysis of muscarinic
  different gas compositions
                                     p 75
                                                             cholinergic and GABAA (benzodiazepine) receptors in the
   Combined effect of head-down tilt and gamma rays on
                                                             forebrain of rats flown on the Soviet Biosatellite COSMOS
  the higher nervous activity of rats
                                    p 242 A93-35262
                                                                                                p 156 A93-28743
    Roentgenophosphene as an indicator of the radiation
                                                               Half-squaring in responses of cat striate cells
                                                                                               p 157 A93-28748
  excitability of the central nervous system
                                    p 325 A93-43078
                                                               Persistent blockade of potassium-evoked serotonin
    Dynamics of electroencephalographic indices during
                                                             release from rat frontocortical terminals after fluoxetine
  acute hypoxia
                                    p 402 A93-55333
                                                                                                p 202 A93-32125
    Motion and space sickness
                                                               Spontaneous and evoked activity of neurons in the
  HSBN 0-8493-4703-31
                                    p 402 A93-55929
                                                             parietal associative cortex of cats during motion
    The central nervous connections involved in motion
                                                                                               p 239 A93-35211
                                                              sickness
                                    p 399
                                           A93-55931
                                                               Oxygen regime in the frontal cerebral cortex of monkeys
   Neurochemistry and pharmacology of motion sickness nonhuman species p 399 A93-55934
                                                             during a two-week space flight
                                                                                             p 272 A93-40773
  in nonhuman species
                                                               The human EEG correlates during many-sided peripheral
    A core facility for the study of neurotoxins of biological
                                                             exposure to an alternating magnetic field
                                                                                                p 363 A93-46966
 origin
[AD-A254359]
                                     p 50 N93-12945
                                                               Functional MRI studies of human vision on a clinical
    Evoked brain potentials as indicators of a central nervous
                                                              imager
                                                             IDE92-017448]-
  impairment in a simulated saturation dive to 560 m
                                                                                                 p 49 N93-12566
                                    p 219 N93-24093
                                                               Cognition and the brain
    Theory of synaptic plasticity in visual cortex
                                                             IAD-A2554831
                                                                                                 p 59 N93-14788
                                    p 219 N93-24238
 IAD-A2603221
                                                               Conversion of temporal correlations between stimuli to
    Secondary injury factors and preventative treatment
                                                              snatial correlations between attractors
 IPB93-1760141
                                    p 283 N93-27409
                                                                                                 p 96 N93-16962
   Hydrogen-rated system for in vitro studies at pressure:
                                                               The role of central monoaminergic systems in arousal
  Operating procedures and emergency procedures
                                                             and selective attention
  IAD-A2641791
                                    p 336 N93-30882
                                                                                                p 122 N93-18264
                                                             IAD-A258500 I
CENTRAL NERVOUS SYSTEM STIMULANTS
                                                             Theory of synaptic plasticity in visual cortex [AD-A260322] p 219
   Effects of dextromethamphetamine on subjective
                                                                                               p 219 N93-24238
  fatigue
                                                               Duration of alpha suppression increases with angle in
 [AD-A258252]
                                    p 119 N93-17822
                                                             a mental rotation task
CENTRIFUGAL FORCE
                                                             [AD-A261592]
                                                                                                p 260 N93-26435
   The Centrifuge Facility Life Sciences Glovebox
                                                               Imaging regional changes in the spontaneous activity
  configuration study
                                                              of the brain: An extension of the minimum-norm
  SAF PAPER 9211581
                                    p 293 A93-41341
                                                              least-squares estimate
                                                                                                p 260 N93-26436
CENTRIFUGAL PUMPS
                                                             [AD-A261593]
   Effects of air bubble contamination in recirculating water
                                                               Neuromagnetic investigation of
                                                                                                  cortical regions
 loop
|SAE PAPER 921282|
                                                              underlying short-term memory
                                                                                                p 261 N93-26521
                                    p 302 A93-41450
                                                              AD-A2614451
CENTRIFUGES
                                                            CEREBRAL VASCULAR ACCIDENTS
                                                               Effects of oxygen on regulation of cerebral blood flow
    Centrifuges - Their development and use in gravitational
                                    p 376 A93-49210
                                                                                                   p 3 A93-13545
                                                              in rabbits adapted to hypoxia
```

CEREBROSPINAL FLUID SUBJECT INDEX

CEREBROSPINAL FLUID Melalonin concentrations in the sudden inlant death svndrome p 203 A93-33030 Statistical analysis of the human strangulation experiments: Comparison to 1 Gz-induced loss of consciousness IAD-A2554851 p 54 N93-14789 New techniques for positron emission tomography in the study of human neurological disorders I DE93-002098 I p 95 N93-15900 CERTIFICATION Guide for aviation medical examiners | PB92-219690 | p 172 N93-21047 Helicopter simulation: An aircrew training and qualification perspective p 342 N93-30676 CHANGE DETECTION Auditory perception IAD-A2550611 p 23 N93-12469 CHANNELS (DATA TRANSMISSION) Headphone localization of speech stimuli p 176 A93-27143 Advanced cockpit-mission and image management p 144 N93-19760 CHARACTERIZATION Upper interior head protection. Volume 2: Fleet characterization and countermeasure evaluation p 195 N93-21795 IPB93-1137771 CHARGE COUPLED DEVICES Intensified CCD sensor applications for helmet-mounted displays p 228 A93-30064 CHARGED PARTICLES Radiation damage to DNA IDE92-0157601 p 5 N93-10834 CHARTS Human factors design principles for instrument approach procedure charts. Volume 1: Readability p 104 N93-15968 CHEMICAL ANALYSIS A lunar-based chemical analysis laboratory [ISBN 0-937194-25-5] p 39 A93-17426 Recommended radiobiological studies Lunar-Based Chemical/Biological/Medical Analysis Laboratory (LBCAL) p 39 A93-17429 Controlled Ecological Life Support System - CELSS p 62 A93-17432 and toxicological assessment environmental contaminants in the Lunar-Chemical p 62 A93-17433 Analysis Laboratory Chronobiology in a moon-based chemical analysis and physiologic monitoring laboratory p 48 A93-17439
Detection of genetic effects of excess near-ultraviolet irradiation under exobiology conditions p.39 A93-17446 Localization of extracellular matrix components in developing mouse salivary glands nds by confocal p 155 A93-28725 microscopy Transcutaneous analyte measuring methods p 333 N93-29509 LAD-A262861 I CHEMICAL ATTACK error-proofing of and chemical/biological/radiation protective glove use on touch panel operation p 186 A93-27152 CHEMICAL BONDS Unexpected substrate specificity of T4 DNA ligase evealed by in vitro selection p 397 A93-52878 revealed by in vitro selection CHEMICAL COMPOSITION Protein composition of the blood plasma of cosmonauts after lengthy orbital flights p 249 A93-35243 The development of an atmosphere composition monitor for the Environmental Control and Life Support System ISAE PAPER 9211491 p 292 Microwave digestion preparation and ICP determination p 377 A93-49570 of boron in human plasma Effects of 60-Hz electric and magnetic fields on operant and social behavior and on neuroendoctrine system of nonhuman primates p 207 N93-22913 IDE93-0076771 CHEMICAL DEFENSE Pharmacological defense of the brain during radiation p 240 A93-35217 damage - Some arguments

media

systems Physiological stress from chemical defense clothing and

conditions CHEMICAL REACTIONS development LDE92-0012791

An efficient lightning energy source on the early earth p 73 A93-17823 The evolution of aminoacyl-tRNA synthetases, the biosynthetic pathways of amino acids and the genetic p 73 A93-17825 Comet impacts and chemical evolution on the

bombarded earth p 109 A93-17980 Why are hydrothermal systems proposed as plausible p 73 A93-18001 environments for the origin of life? Hydrothermal systems - Their varieties, dynamics, and suitability for prebiotic chemistry p 73 A93-18002 Chemical environments of submarine hydrothermal systems --- supporting abiogenetic theory

p 74 A93-18005 Chemical markers of prebiotic chemistry in hydrothermal p 74 A93-18006 An experimental approach to chemical evolution in p 74 A93-18008 submarine hydrothermal systems Future research --- abiogenesis in hydrotherma p 74 A93-18010

Photo and thermal reactions of ferrous hydroxide --formation of hydrogen in Archaean ocean relevant to p 269 A93-36561 chemical origin of life On the reaction of 2-aminopropionitrile in aqueous p 354 A93-43791

Evaporation cycle experiments -A simulation of salt-induced peptide synthesis under possible prebiotic p 354 A93-43792 Flavine-dependent processes in model prebiological

p 372 A93-47125 Carbonaceous chondrites and the origin of life

p 412 A93-55997 A model for the prebiotic synthesis of peptides which throws light on the origin of the genetic code and the p 412 A93-56000 observed chirality of life Self-programming of matter and the evolution of

proto-biological organizations p 5 N93-10628 IDF92-0152441 Hydrothermal organic synthesis experiments

p 41 N93-13457 [NASA-CR-191257] Overview: Exobiology in solar system exploration

p 112 N93-18546 The solar system: Importance of research to the

biological sciences p 113 N93-18547 The Moon: Biogenic elements p 113 N93-18548 Exobiology and terrestrial life p 237 N93-24405

Chiral symmetry breaking in nonlinear autocatalytic reactions and the effect of external noise p 269 A93-36564

The binding and reactions of nucleotides and polynucleotides on iron oxide hydroxide polymorphs p 325 A93-43795

Formation of reduced carbonaceous matter in basalts and xenoliths - Reaction of C-O-H gases on olivine crack surfaces --- space biological evolution

p 411 A93-53286 Biological conversion of synthesis gas culture

p 6 N93-12482

CHEMICAL WARFARE

The effect of wearing protective chemical warfare combat clothing on human performance

p 230 A93-30287 The effects of wearing protective chemical warfare combat clothing on human performance

p 35 N93-12491

CHEMORECEPTORS

Response of adrenergic receptors to 10 days head-down p 162 A93-28679 Mechanisms of improved arterial oxygenation after peripheral chemoreceptor stimulation during hypoxic p 331 A93-42188

CHEMOTHERAPY

p 51 N93-14028

p 168 A93-28739

p 171 A93-28766

p 275 N93-27360

p 73 A93-17822

Fluorocarbon 113 exposure and cardiac dysrhythmias

Experimental studies on the origin of the genetic code

and the process of protein synthesis - A review update

Cancer risk assessment with intermittent exposure

Regenerable biocide delivery unit, volume 2

Buspirone blocks cisplatin-induced emesis in cats p 324 A93-42668

Allergic, Immunological and Infectious Disease Problems in Aerospace Medicine p 14 N93-11283

[AGARD-CP-518] Early markers of HIV infection and subclinical disease p 17 N93-11296 progression Communicable diseases: A major burden of morbidity p 18 N93-11300 and mortality Recent lessons on the safety and effectiveness of

malaria chemoprophylaxis in a non-immune population p 19 N93-11307 Future approaches to vaccine development single-dose

vaccines using controlled-release delivery systems p 20 N93-11310

Epidemiologic view of allergic diseases in North America: Implications for aerospace medicine p 20 N93-11311 The screening of inhalant allergic diseases in the selection of candidates for aircraft piloting
p 21 N93-11312

Asthma in aircrew: Assessment, treatment and p 21 N93-11315 disposition

Rapid susceptibility testing of mycobacterium avium complex and mycobacterium tuberculosis isolated from AIDS patients

INASA-CR-1923821 p 172 N93-20736 Measuring the metastatic potential of cancer cells

p 244 N93-25566 Immunoconjugates: Magic bullets for cancer therapy? p 253 N93-25567

Secondary injury factors and preventative treatment p 283 N93-27409 [PB93-176014]

CHILDREN Melatonin concentrations in the sudden infant death p 203 A93-33030 syndrome

The psychosocial adaptation of children in space - A p 388 A93-50338 speculation Suited for spacewalking: A teacher's guide with activities

INASA-FP-2791 p 65 N93-13692

CHIPS (ELECTRONICS)

Silicon neuron LAD-A2550911 p 50 N93-12756 Neural network retinal model real time implementation (AD-A255652) N93-14210 p 52

CHIRAL DYNAMICS

Chiral-symmetry-breaking in nonequilibrium chemical systems - The racemization influence

p 269 A93-36563 Chiral symmetry breaking in nonlinear autocatalytic

reactions and the effect of external noise p 269 A93-36564

CHLOROFLUOROCARBONS

Fluorocarbon 113 exposure and cardiac dysrhythmias among aerospace workers p 168 A93-28739

CHLOROPHYLLS Modification of yield and chlorophyll content in leaf

lettuce by HPS radiation and nitrogen treatments p 328 A93-44880

New approaches to the measurement of chlorophyli. related pigments and productivity in the sea

p 42 N93-13612 [NASA-CR-190879] Primary charge separation in isolated photosystem 2

reaction centers p 82 N93-17189 IDE92-0411281

Nonlinear optical properties of porphyrin and chlorophyll dimers studied by degenerated four wave mixing

IDE93-006411] p 210 N93-24028

CHLOROPLASTS

Nitrogen control of chloroplast development and differentiation [DE92-017392] p 39 N93-12768

Kinetic studies of interfacial photocurrents in platinized

p 211 N93-25104 IDE93-0023441

CHOLERA

Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304 CHOLESTEROL

Cases from the aerospace medicine resident's teaching file: Case No.51 - Hypercholesterolemia and heme positive stools in a 69-year-old aviator (clinical conference)

p 165 A93-28702 Changes in the phospholipid and cholesterol content of rat tissues during adaptation to high attitude at different

p 358 A93-47100 environmental temperatures Lipodystrophies in the French military flight crew

p 362 N93-32249

Lipidemic profile of Hellenic Airforce officers

.p 362 N93-32250

Correlation of life-style and dietary concomitants of p 369 N93-32256 Greek pilots with serum analytes CHOLINE

Effects of dietary amino acids, carbohydrates, and choline on neurotransmitter synthesis

p 204 A93-33031

CHOLINERGICS

Quantitative autoradiographic analysis of muscarinic cholinergic and GABAA (benzodiazepine) receptors in the forebrain of rats flown on the Soviet Biosatellite COSMOS p 156 A93-28743

Thermal evolution of cometary nuclei by radioactive heating and possible formation of organic chemicals

p 196 A93-27561 CHROMATOGRAPHY Chemical characterization of some aqueous leachates

from crop residues in 'CELSS' p 115 N93-19399 **CHROMIUM ISOTOPES**

Freeze-dried human red blood cells

LAD-A2532951 p 14 N93-11193

CHROMOSOMES

Results of experiments on the exploration of genetic effect of rocket flight factors with Drosophila melanogaster p 1 A93-11691

equipment

I AD-A255786 I

CHEMICAL EFFECTS

among aerospace workers

[NASA-CR-185701-VOL-2]

CHEMICAL EQUILIBRIUM

CHEMICAL EVOLUTION

Peroxidative oxidation of lipids and chromosome aberrations in mice after repeated exposures to a helium-oxygen respiration mixture under hyperbaric conditions p 243 A93-35672 Molecular cytogenetics: A novel approach for measuring chromosome translocations in individuals years after exposure to low levels of ionizing radiation IDE92-0180661 p 5 N93-10974 CHRONIC CONDITIONS Age and length of service of flight personnel in the case of chronic diseases p 248 A93-35227 Occupational health problems in aviation medicine p 252 A93-36743 Effect of chronic hypoxia on hypoxic ventilatory response in awake rats D 323 A93-42187 Effects of chronic hypoxia and exercise on plasma erythropoietin in high-altitude residents p 331 A93-42191 Functional and structural adaptation of the yak pulmonary circulation to residence at high altitude p 326 A93-44181 CIRCADIAN RHYTHMS Research on sleep, circadian rhythms and aging -Applications to manned spaceflight p 94 A93-20658 Sleep and circadian rhythms p 94 A93-20659 Response of the circadian system to 6 deg head-down p 117 A93-24045 Thermoregulatory responses of rhesus monkeys during spaceflight p 154 A93-28706 Age, circadian rhythms, and sleep loss in flight crews p 211 A93-30276
Two circadian oscillátors in one cell p 239 A93-34518 The prediction of the adaptation of circadian rhythms to rapid time zone changes p 278 A93-39714 Pre-adaptation to shiftwork in space p.386 A93-52403 Effects of early bright, late bright and dim illumination upon circadian neuroendocrine, electrophysiological and behavioral responses [AD-A254129] p 13 N93-10661 NASA Space Human Factors Program [NASA-TM-108005] p 31 N93-10890 Neurochemical control of circadian rhythms p 50 N93-13116 (AD-A255054) Sleep inertia: Is there a worst time to wake up? [AD-A256602] p 52 N93-14240 Bright light delivery system [NASA-CASE-MFS-28723-1] p 96 N93-17058 The effect of combat on the work/rest schedules and fatigue of A-6 and F-14 aviators during Operation Desert Shield/Storm (AD-A258146) p 122 N93-18292 The effect of combat on aircrew subjective readiness and LSO grades during Operation Desert Shield/Storm [AD-A258156] p 132 N93-18294 Study of SCN neurochemistry using in vivo microdialysis in the conscious brain: Correlation with circadian activity rhythme [AD-A259803] p 217 N93-23459 Control and circadian behavior by transplanted suprachiasmatic nuclei p 335 N93-30382 (AD-A2645531 Molecular approach to hypothalamic rhythms [AD-A264438] p 335 N93-30421 Photoreceptors regulating circadian behavior: A mouse IAD-A264881 I p 337 N93-30908 Melatonin, the pineal gland, and circadian rhythms p 337 N93-31061 [AD-A264099] Organization of the human circadian system p 361 N93-32015 Neurophysiological analysis of circadian rhythm entrainment [AD-A264681] p 361 N93-32018 Human factors and the safety of flights: The importance p 371 N93-32267 of the management of sleep Investigation into the common mode rejection ratio of the physiological signal conditioner circuit p 245 N93-26073 CIRCULATORY SYSTEM EFfects of positive acceleration on the microcirculation of rabbit conjunctiva, mesentery, skin, and pia mater p 4 A93-13709 Diurnal rhythmicity of human orthostatic stability p 250 A93-35253 STS-40 Spacelab Life Sciences 1 (SLS-1): The first dedicated spacelab life sciences mission p 80 N93-15823 [NASA-TM-108034]

CIVIL AVIATION

challenges I AIAA PAPER 92-4231 I

Bedford

High-speed civil transport - Advanced flight deck

Advanced civil airliner cockpit research at RAE

p 28 A93-13357

p 29 A93-13416

The efficiency of a prophylactic-rehabilitational treatment of civil-aviation flight crews p 91 A93-18415 Examination of the relationship between changes in the demand for civil aviation services and the volume of flight p 98 A93-18773 simulator training Civil aviation and cardiology - Admission rules and follow-up of the technical flying personnel of TAP-Air p 164 A93-28699 Portugal Working hours and fatigue of Japanese flight attendants p 171 A93-28762 (FA) Peripheral arterial thrombosis related to commercial airline flights - Another manifestation of the economy class p 215 A93-32775 syndrome Toward a flight deck automation philosophy for the Boeing High Speed Civil Transport ISAE PAPER 9211331 p 291 A93-41321 Is axial loading a primary mechanism of injury to the lower limb in an impact aircraft accident? p 125 N93-19664 CLASSIFICATIONS Recent developments in U.S. Air Force pilot candidate p 97 A93-18046 selection and classification Revision of the Wind River faunas, early Eocene of central Wyoming. IX - The oldest known hystricomorphous

selection and classification
Revision of the Wind River faunas, early Eocene of
central Wyoming. IX - The oldest known hystricomorphous
rodent (Mammalia: Rodentia) p 328 A93-44903
Computing with neural maps: Application to perceptual
and cognitive function
|AD-A264056| p 341 N93-30033
LASSIFYING

Synthetic experience - A proposed taxonomy p 390 A93-49398

CLIMATE CHANGE

The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf

[DE93-002940] p 115 N93-19751
CLIMBING FLIGHT

HUD climb/dive ladder configuration and unusual attitude recovery p 185 A93-27129

CLINICAL MEDICINE

Clinical and diagnostic requirements - Biochemical exploration of amino acid metabolism, IRNA turnover and lymphocyte activation p49 A93-17442 Frontier Symposium on Clinical Pharmacology in Space, 10th, Houston, TX, May 10, 11, 1990, Proceedings

p 83 A93-17527 First intramuscular administration in the U.S. space program --- of motion sickness drugs p 84 A93-17534 Pharmacologic considerations for Shuttle astronauts

p 85 A93-17537

Space medicine - Answering the challenge p 87 A93-17552 Hypokinesia and weightlessness: Clinical and physiologic aspects --- Book

ISBN 0-8236-2415-3| p 87 A93-17897 Flight physiology - Clinical considerations

p 164 A93-28690
The clinical chemistry and immunology of long-duration space missions p 169 A93-28754
New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine

medical examination p 279 A93-40774
Hyperbaric treatment operations aboard Space Station

SAE PAPER 921142 | p 292 A93-41328 A modified method for investigating gastric secretion in aviation medical examination p 359 A93-45692 Coccidioidomycosis - A persistent threat to deployed populations p 380 A93-49228 Risk assessment and clinical aeromedical decision-making p 385 A93-52305

Remote medical systems for the human exploration of space
[AAS PAPER 91-321] p 401 A93-54309

Clinical types of Hepatitis B p 15 N93-11286 Viral hepatitis in the US Air Force, 1980 - 1989 p 15 N93-11287

Hepatitis A and Hepatitis B: Risks compared to other vaccine preventable diseases and immunization p 15 N93-11288
Silent HIV infection p 16 N93-11298
Early markers of HIV infection and subclinical disease

progression p 17 N93-11296
Analysis of disease progression from clinical observations of US Air Force active duly members intected with the Human Immunodeficiency Virus: Distribution of AIDS survival time from interval censored observations

p 17 N93-11297 Clinical and immunological response to vaccination with

parenteral or oral vaccines in two groups of 30 recruits
p 19 N93-11305

Studies of safety, infectivity, and immunogenicity of a new Temperature Sensitive (TS) 51-1 strain of S. typhi as a new live oral typhoid fever vaccine candidate p 19 N93-11306 Phadiatop: A screening test for inhalant allergy p 21 N93-11313

A health care system for the Space Station [NASA-TM-108093] p 65 N93-13571 Automated system for early breast cancer detection in mammograms p 253 N93-25568

DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field

Proceedings of a Workshop on Molecular Nuclear Medicine
[DE93-010828] p 285 N93-28835

p 284 N93-28469

CLOSED CIRCUIT TELEVISION

IETN-93-93799 I

The adult literacy evaluator: An intelligent computer-aided training system for diagnosing adult illiterates p 258 N93-26082

CLOSED CYCLES

Plasma reactor waste management systems

p 68 N93-14000 Conceptual design of a lunar base thermal control system p 68 N93-14003

CLOSED ECOLOGICAL SYSTEMS

Human support for Mars exploration - Issues and approaches p 27 A93-12077 Controlled Ecological Life Support System - CELSS

p 62 A93-17432 Effects of possible pollution sources of the atmosphere of a closed ecosystem on the growth of microorganisms n 101 A93-18418 Controlled Ecological Life Support System (CELSS) p 137 A93-25308 modelina Controlled ecological life-support system - Use of plants p 190 A93-28715 for human life-support in space Bioregenerative life support as self-sustaining n 231 A93-32073 ecosystem in space Recycling and source reduction for long duration space

habitation
| SAE PAPER 921121 | p 290 A93-41313
| Analysis of the Variable Pressure Growth Chamber using the CASE/A simulation package

[SAE PAPER 921122] p 291 A93-41314 Biosphere 2 - Overview of system performance during the first nine months

[SAE PAPER 921129] p 291 A93-41317 Crop interactions in polyculture and their implications for CELSS design

| SAE PAPER 921197 | p 295 A93-41373 A trade study method for determining the design parameter of CELSS subsystems

An approach to the functional optimization of the CELSS Test Facility

[SAE PAPER 921199] p 295 A93-41375

European involvement in CELSS - Definition of a Closed Ecological Systems Test Bed | SAE PAPER 921200 | p 295 A93-41376

Functions simulation model of integrated regenerable life support system | SAE PAPER 921201 | p 295 A93-4137.7

Microbiological concerns and methodological approaches related to bacterial water quality in spaceflight

Development of the nitrogen fixation system for CELSS

[SAE PAPER 921238] p 297 A93-41411 Concept of waste transferring mechanisms

[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results --- Object-oriented Controlled Ecological Life Support System Analysis and Modeling

[SAE PAPER 921241] p 298 A93-41413 Evaluation of capillary electrophoresis for in-flight ionic contaminant monitoring of SSF potable water

[SAE PAPER 921268] p 300 A93-41438
An assessment of waste processing/resource recovery technologies for lunar/Mars life applications

|SAE PAPER 921271| p 300 A93-41441 Anaerobic treatment of organic wastes from Controlled

Ecological Life Support Systems

[SAE PAPER 921272] p 301 A93-41442

Biofilm formation and control in a simulated spacecraft

water system - Three year results
|SAE PAPER 921310| p 303 A93-41472
| A govel membrane device for the removal of water yappr

A novel membrane device for the removal of water vapor and water droplets from air

|SAE PAPER 921322| p 304 A93-41484 Plant canopy transpiration in bioregenerative life support systems - The link between mechanistic and empirical models

|SAE PAPER 921355| p 306 A93-41514 Biomass productivity and sustainability of a bioregenerative life-support system ISAE PAPER 921359! p 307 A93-41518

Design and preliminary testing of a membrane based	COCHLEA	Adaptive automation and human performance. 3: Effects
water recycling system for European manned space	The influence of military low-altitude flight noise on the	of practice on the benefits and costs of automation
missions SAE PAPER 921396 p 309 A93-41553	inner ear of the guinea pig. II - Scanning electron micrographs p 377 A93-49556	shifts [AD-A254381] p 64 N93-12860
Hermes ECLSS - Main requirements and technical	COCKPIT SIMULATORS	The relationship between environmental conditions and
solutions SAE PAPER 921400 p 309 A93-41555	Hazard alerting and situational awareness in advanced	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090
LIAC - A closed ecosystem research facility Life In	air transport cockpits p 61 A93-14377 Human visual performance model for crewstation	Development of measures of crew coordination
A Can p 347 A93-42129	design p 182 A93-26887	[AD-A255384] p 70 N93-14651
Implementation of biological elements in life support systems - Rationale and development milestones	Electronic map interpretation in a dual-task context	Using constraint satisfaction networks to study aircrew selection for advanced cockpits
p 390 A93-49302	p 176 A93-27144 An exploratory study of plan-view terrain displays for	[AD-A258151] p 140 N93-18293
The first 'space' vegetables have been grown in the 'SVET' greenhouse using controlled environmental	air carrier operations p 289 A93-39573	Advanced cockpit-mission and image management p 144 N93-19760
conditions p 394 A93-52410	3-D target designation using two control devices and	Aircrew acceptance of automation in the cockpit
CELSS nutrition system utilizing snails p 394 A93-52411	an aiding technique in fighter cockpits p 408 A93-53120	p 144 N93-19761 Developing virtual cockpits p 145 N93-19764
Incineration for resource recovery in a closed ecological	KC-135 crew reduction feasibility demonstration	Developing virtual cockpits p 145 N93-19764 Panoramic cockpit displays p 145 N93-19765
life support system p 409 A93-54826	simulation study. Volume 3: Test and evaluation	Multimodal dialog system for future cockpits
Techniques for optimal crop selection in a controlled ecological life support system	[AD-A253931] p 30 N93-10713 CVA, cockpit design and development tool	p 146 N93-19773 Management of avionics data in the cockpit
[NASA-TM-103950] p 33 N93-12018	p 147 N93-19780	p 147 N93-19777
ECLSS medical support activities [NASA-CR-184429] p 23 N93-12427	An evaluation of B-1B pilot performance during simulated	The integration of advanced cockpit and systems design p 147 N93-19779
The environmental control and life-support system for	instrument approaches with and without status information	design p 147 N93-19779 The active-matrix LC head-down display (AM-LCD):
a lunar base: What drives its design p 66 N93-13991	[AD-A263874] p 353 N93-29888	Operational experience and growth potential
Life systems for a lunar base p 66 N93-13992 Lunar base CELSS: A bioregenerative approach	Utility of a ghost horizon and climb/dive ladder line	p 148 N93-19782 Equipment, more or less ready to be used in
p 67 N93-13993	tapering on a head-up display [AD-A264401] p 353 N93-30167	helicopters p 148 N93-19785
Scenarios for optimizing potato productivity in a lunar CELSS p. 67 N93-13997	The effects of cockpit heat on aviator sleep	User areas in aircraft cockpit, using methods of rapid
CELSS p 67 N93-13997 Distribution of human waste samples in relation to sizing	parameters p 371 N93-32266	prototype development [MBB-FE-315-S-PUB-0493] p 196 N93-22389
waste processing in space p 68 N93-14001	COCKPITS Design of a display system for a human pilot's	Oculo-motor responses and virtual image displays
Annual report [NASA-CR-191389] p 105 N93-16840	supervisory tasks p 27 A93-11201	p 319 N93-28862 Cognitive interface considerations for intelligent
Life support and self-sufficiency in space communities	Advanced displays for military operations	cockpits p 319 N93-28865
p 105 N93-16866	[AIAA PAPER 92-4243] p 28 A93-13350	Ergonomic development of digital map displays
Autonomous support for microorganism research in space	High-speed civil transport - Advanced flight deck challenges	p 320 N93-28866 Overview of cockpit technology research and
[NASA-CR-192062] p 83 N93-17780	[AIAA PAPER 92-4231] p 28 A93-13357	development programs for improvement of the
Automation of closed environments in space for human comfort and safety	Human factors on advanced flight decks; Proceedings	man/machine interface: Review of the AGARD AVP
[NASA-CR-192045] p 138 N93-17971	of the Conference, London, United Kingdom, Mar. 14, 1991	Symposium held in Madrid, May 1992 p 320 N93-28872
Characterization of the water soluble component of	[ISBN 0-903409-85-2] p 29 A93-13408	CODING
inedible residue from candidate CELSS crops [NASA-TM-107557] p 139 N93-18111	C.R.M. training for the advanced flight deck p 24 A93-13410	The effect of combat on aircrew subjective readiness and LSO grades during Operation Desert Shield/Storm
Conceptual design of a thermal control system for an	Airline training for advanced technology cockpits	[AD-A258156] p 132 N93-18294
inflatable lunar habitat module [NASA-CR-192014] p 140 N93-18113	p 24 A93-13411	Significance of histological postmortem findings in pilots killed in military and civil aircraft accidents in Germany
Space life support engineering program	Vision modelling applications for display optimisation p 29 A93-13414	(West): A 25-year-review p 126 N93-19697
[NASA-CR-192188] p 141 N93-19039	Advanced civil airliner cockpit research at RAE	The effects of display and response codes on
Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399	Bedford p 29 A93-13416 Army cockpit delethalization program	information processing in an identification task [AD-A259531] p 234 N93-23451
Study on environment control and life support	p 61 A93-15419	COENZYMES
technology p 149 N93-20413 Closed Ecological Life Support Systems (CELSS) Test	Individual differences in computerized test performance	Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration
Facility p 233 N93-22628	for systems integration in cockpit management p 177 A93-27176	[VTT-PUBS-77] p 209 N93-23369
Zero-G life support for Space Station Freedom p 233 N93-22640	Testing a subjective metric of situation awareness	COGNITION Continue to constitute function by represent
Ecosystems on Earth and in space (the possible	p 178 A93-27183 The advent of helmet-mounted devices in the combat	Cortical localization of cognitive function by regression of performance on event-related potentials
utilization of artificial ecosystems for space life support	aircraft cockpit - An operator's viewpoint	p 9 A93-10337
systems) p 236 N93-24406 Alternative processes for water reclamation and solid	p 227 A93-30056 The realities of using visually coupled systems for training	A reappraisal of aging and pilot performance p 56 A93-15663
waste processing in a physical/chemical bioregenerative	applications p 228 A93-30063	Graphical displays - Implications for divided attention,
life support system p 311 N93-27721 Closed ecological systems: From test tubes to Earth's	Information management problems and their influence	focused attention, and problem solving p 102 A93-19984
biosphere p 315 N93-27976	on cockpit equipment architecture of transport aircraft p 223 A93-31491	Choosing specifiers - An evaluation of the basic tasks
Assessment of the state of the art in life support	Flight deck automation and pilot workload	model of graphical perception p 102 A93-19985
environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support	[SAE PAPER 921132] p 291 A93-41320 Toward a flight deck automation philosophy for the	Effects of sleep deprivation on the cognitive capacities of visuo-spatial representation and orientation
systems in the lunar environment p 315 N93-27979	Boeing High Speed Civil Transport	p 129 A93-21870
Earth to lunar CELSS evolution p 351 N93-29727 Design of biomass management systems and	[SAE PAPER 921133] p 291 A93-41321 Task allocation and automation in design and operation	Effects of simulated high altitude exposure on long-latency event-related brain potentials and
components for closed loop life support systems	of man-machine systems p 348 A93-42842	performance p 117 A93-24042
p 351 N93-29728	An evaluation of miniaturized aircraft keyboards	COGIMIR - A study of cognitive functions in
Automation of closed environments in space for human comfort and safety p 352 N93-29734	p 348 A93-42844 Benefits, limitations, and guidelines for application of	microgravity p 174 A93-26569 Individual differences in computerized test performance
Atmospheric control systems p 365 N93-31456	stereo 3-D display technology to the cockpit	for systems integration in cockpit management
CLOSING A device for the prolonged restraint of primates in	environment p 350 A93-44895 Flight mechanics of high-performance aircraft	p 177 A93-27176 Cognitive predictors of vigilance p 287 A93-40771
closed-space conditions p 77 A93-18302	[ISBN 0-521-34123-X] p 365 A93-47019	Cognitive performance and event-related brain
CLOTHING Modeling clathed flavors	Human-centered automation and Al - Ideas, insights,	potentials under simulated high altitudes p 331 A93-42189
Modeling clothed figures [AD-A257037] p 71 N93-15363	and issues from the Intelligent Cockpit Aids research effort p 407 A93-52764	A cognitive classification of pilot performance in air
CLOTTING	Mental workload assessment in the cockpit: Feasibility	combat p 347 A93-42814
Fundamental diagnostic hematology: The bleeding and clotting disorders (second edition)	of using electrophysiological measurements, phase 1 [AD-A254138] p 25 N93-10662	Perceptual bias for forward-facing motion p 339 A93-44940
[PB93-188670] p 338 N93-31158	KC-135 crew reduction feasibility demonstration	The effects of Benadryl and Hismanal on psychomotor
CMOS Electrically medificially appropriate SONOS supposes for	simulation study. Volume 3: Test and evaluation	performance and perceived performance
Electrically modifiable nonvolatile SONOS synapses for electronic neural networks	[AD-A253931] p 30 N93-10713 Direct manipulation and intermittent automation in	p 385 A93-52303 Disruption and maintenance of skilled visual search as
[AD-A258318] p 122 N93-18252	advanced cockpits	a function of degree of consistency p 389 A93-52501
COATINGS Adjustic highline and their responses to disinfection and	AD-A253814 p 32 N93-11784 Human performance in complex task environments: A	Real-time expert system interfaces, cognitive processes, and task performance - An empirical assessment
Aquatic biofilms and their responses to disinfection and invading species	basis for the application of adaptive automation	p 394 A93-52503
[SAE PAPER 921211] p 296 A93-41387	[AD-A255067] p 35 N93-12486	Cognitive function at high altitude p 386 A93-52505

SUBJECT INDEX		COLUMBUS SPACE STATION
Space and cognition - The measurement of behavioral	Ontology of mind, subjective ontology, and the example	Medical aspects of cold weather operations: A handbook
functions during a 6-day space mission	of temporal expressions	for medical officers
p 405 A93-55164	[REPT-92-018] p 26 N93-11212	[AD-A263559] p 336 N93-30588
Eye movements and visual information processing [AD-A250198] p 24 N93-10278	Relating cognitive function to military aviator performance in early HIV infection p 17 N93-11298	COLD WEATHER TESTS Biophysical model for handwear insulation testing
Cognition in the brain: Investigations using positron	A psychometrically sound cognitive diagnostic model:	[AD-A262926] p 320 N93-28884
emission tomography [AD-A254280] p 14 N93-10765	Effect of remediation as empirical validity [AD-A255926] p 52 N93-14109	COLLAGENS
Ontology of mind, subjective ontology, and the example	Comparing performance on implicit memory tests	Localization of extracellular matrix components in developing mouse salivary glands by confocal
of temporal expressions	[AD-A258168] p 131 N93-17921	microscopy p 155 A93-28725
[REPT-92-018] p 26 N93-11212 Cognition and the brain	Cognitive engineering models in space systems [NASA-CR-192001] p 141 N93-18517	Alterations in biosynthetic accumulation of collagen types I and III during growth and morphogenesis of
[AD-A255483] p 59 N93-14788	The central executive component of working memory	embryonic mouse salivary glands p 156 A93-28746
Summary of presentation for research on social structure, agreement, and conflict in groups in extreme	ACOGNITIVE ACCUSED A COGNITIVE ACCUSED A COGNITIVE ACCUSED A COGNITIVE ACCUSED	COLLECTION
and isolated environments p 99 N93-16801	model research	Survey of aviation medical examiners: Information and attitudes about the pre-employment and pre-appointment
Cognitive factors in the air events of the Air Force during	[AD-A261040] p 258 N93-25815	drug testing program
the last decade p 134 N93-19682 The central executive component of working memory	Neural basis of motion perception [AD-A261452] p 260 N93-26349	[DOT/FAA/AM-92/15] p 218 N93-24088 COLLIMATION
[AD-A258724] p 135 N93-20326	Facilitation and interference in identification of pictures	Depth-viewing-volume increase by collimation of stereo
The effects of display and response codes on information processing in an identification task	and words [AD-A261484] p 260 N93-26356	3-D displays p 407 A93-52915 COLLISION AVOIDANCE
[AD-A259531] p 234 N93-23451	Spontaneous discovery and use of categorical	Collision avoidance of a multiple degree of redundancy
Facilitation and interference in identification of pictures	structure AD-A261658 p 260 N93-26364	manipulator operating through a window
and words [AD-A261484] p 260 N93-26356	Neuromagnetic investigation of cortical regions	p 136 A93-23846 COLLISION PARAMETERS
Duration of alpha suppression increases with angle in	underlying short-term memory	Modeling clothed figures
a mental rotation task [AD-A261592] p 260 N93-26435	[AD-A261445] p 261 N93-26521 How expert pilots think: Cognitive processes in expert	[AD-A257037] p 71 N93-15363 COLLOIDING
Comparative analytical study of evoked and event	decision making	Recovering potable water from wastewater in space
related potentials as correlates of cognitive processes	[DOT/FAA/RD-93/9] p 288 N93-27103	platforms by lyophilization
[AD-A261388] p 261 N93-26446 How expert pilots think: Cognitive processes in expert	Expertise, text coherence, and constraint satisfaction: Effects on harmony and settling rate mental	[SAE PAPER 921323] . p 304 A93-41485 Extraction of potable water from urine for space
decision making	representations	applications p 345 A93-42121
[DOT/FAA/RD-93/9] p 288 N93-27103 The use of electrophysiological and cognitive variables	[AD-A262703] p 288 N93-28901 Representations of shape in object recognition and	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193
in the assessment of degradation during periods of	long-term visual memory	COLOR
sustained wakefulness	AD-A264342 p 341 N93-30163 Background and objectives of the PARAT program	Chromaticity and luminance as coding dimensions in
[AD-A263033] p 283 N93-27923 Expertise, text coherence, and constraint satisfaction:	p 343 N93-31230	visual search p 103 A93-19989 Visibility of transmissive liquid crystal displays under
Effects on harmony and settling rate mental	Phases of the project development and examination	dynamic lighting conditions p 103 A93-19990
representations AD-A262703 p 288 N93-28901	methodologies p 343 N93-31231 The position test: A computer generated process for	Colour is what the eye sees best p 159 A93-26245 Perception of lightness and brightness in complex
Predicting aircrew training performance with	acquisition of inductive logic thinking	patterns
psychometric g [AD-A264021] p 340 N93-30026	p 343 N93-31232	[AD-A254093] p 25 N93-10658
[AD-A264021] p 340 N93-30026 Computing with neural maps: Application to perceptual	A decision-theoretic approach to the display of information for time-critical decisions: The Vista project	The effects of luminance boundaries on color perception
and cognitive function	p 367 N93-32152	[AD-A250705] p 22 N93-11841
[AD-A264056] p 341 N93-30033 The AFOSR Workshop on the Future of EEG and	COLD ACCLIMATIZATION Regulation of the carbohydrate metabolism in humans	COLOR CODING Chromaticity and luminance as coding dimensions in
MEG	residing in the North p 384 A93-51117	visual search p 103 A93-19989
[AD-A264338] p 335 N93-30160 Representations of shape in object recognition and	Intermittent cold exposure causes a muscle-specific shift	Up/down in (im)possible flight attitude indicators - Some effects of colour, shape and pattern p 185 A93-27128
long-term visual memory	in the fiber type composition in rats p 378 A93-52618 COLD TOLERANCE	Colour head-up displays - Help or hindrance?
[AD-A264342] p 341 N93-30163 Determinants of performance rating accuracy: A field	Investigation of the character of changes in the 'central'	p 187 A93-27154
study .	temperature of the body in cold environment, using a	The development of a visual color checkerboard
[AD-A264726] p 342 N93-30575	rabbit-body thermoregulation model p 112 A93-25651 Electromyographic patterns of the thermoregulatory	stimulator p 30 A93-13723
COGNITIVE PSYCHOLOGY Measuring performance decrements in aviation	activity of motor units during cooling of the organism	Chromaticity and luminance as coding dimensions in visual search p 103 A93-19989
personnel infected with the human immunodeficiency	p 360 A93-46968	Effects of display luminance on the recognition of color
virus p 130 A93-25209 The effect of type of task, degree of integration, and	Effects of high altitudes on finger cooling test in Japanese and Tibetans at Qinghai Plateau	symbols on similar color backgrounds p 189 A93-27191
modality on the performance of concurrent tasks	p 382 A93-49560	Color helmet display for the tactical environment - The
p 175 A93-27140	Sustaining health and performance in the cold: A pocket	pilot's chromatic perspective p 227 A93-30058
Experimental validation of the attention switching component of the COGNET framework	guide to environmental medicine aspects of cold-weather operations	Low-cost color LCD helmet display p 228 A93-30062
p 186 A93-27141	[AD-A259625] p 218 N93-24021	Microwaves and the visual analyzer
Complex task performance as a basis for developing cognitive engineering guidelines in adaptive automation	Cellular and tissue injury during nonfreezing cold injury and frostbite	p 250 A93-35247 The effects of luminance boundaries on color
p 186 A93-27148	[AD-A260574] p 254 N93-25900	perception
Reclined seating in advanced crewstations - Human performance considerations p 186 A93-27151	Influence of the Cold Buster (tm) sports bar on heat	[AD-A250705] p 22 N93-11841 Higher order mechanisms of color vision
Using GOMS models and hypertext to create	debt, mobilization and oxidation of energy substrates [AD-A262762] p 285 N93-28939	AD-A256369 p 60 N93-15329
representations of medical procedures for online display	Medical aspects of cold weather operations: A handbook	Validity of clinical color vision tests for air traffic control
p 188 A93-27170 Effects of fatigue and heat stress on vigilance of workers	for medical officers	specialists [AD-A258219] p 123 N93-18301
in protective clothing p 177 A93-27173	[AD-A263559] p 336 N93-30588 An assessment of peripheral nerve damage in the rat	COLORIMETRY
Doing two things at the same time p 180 A93-27817	following non-freezing cold exposure: An	Methods development for total organic carbon accountability
Computerized task battery assessment of cognitive and	electrophysiological and histopathological examination [AD-A264293] p 331 N93-30818	[NASA-CR-184438] p 40 N93-12949
performance effects of acute phenytoin motion sickness therapy p 211 A93-30278	COLD WATER	COLUMBUS SPACE STATION Zero-gravity underwater simulations for the Columbus
Cognitive competencies - Products of genes,	Effectiveness of NASA 1032 and 1035 and Air Force	programme - Outcome of the first campaigns
experience, and technology for training of primates	1030 and 1034 units in protection against cold water hypothermia	p 62 A93-17075
p 201 A93-32113 Learning about primates' learning, language, and	[AD-A255120] p 34 N93-12291	The strategic role of automation and robotics for Columbus utilization p 181 A93-26567
cognition p 201 A93-32124	COLD WEATHER	EMATS, a robot-based Equipment Manipulation and
The role of spatial attention in visual word processing p 339 A93-44922	Sustaining health and performance in the cold: Environmental medicine guidance for cold-weather	Transportation System for the Columbus Free Flying Laboratory p 231 A93-31522
High level organizing principles for display of systems	operation	Effects of air bubble contamination in recirculating water
fault information for commercial flight crews p 388 A93-52187	[AD-A254328] p 23 N93-12145 Sustaining health and performance in the cold: A pocket	loop SAE PAPER 921282 p 302 A93-41450
Cognition in the brain: Investigations using positron	guide to environmental medicine aspects of cold-weather	Recent regenerative ECLSS technology developments
emission tomography	operations	in Europe
[AD-A254280] p 14 N93-10765	[AD-A259625] p 218 N93-24021	[SAE PAPER 921332] p 304 A93-41493

DEX

COMBAT		SUBJECT INDEX
Selection of astronauts for European space missions	Flight grow along during multiple toward note: (lights	Computer modeling of the Variable Programs Growth
p 225 N93-24345	Flight crew sleep during multiple layover polar flights p 380 A93-49226	Computer modeling of the Variable Pressure Growth Chamber using the CASE/A simulation package
The USO-concept applied to a biological model	Mortality experience of cockpit crewmembers from	[SAE PAPER 921354] p 306 A93-41513
experiment p 210 N93-24379 Training concept for crew, end user, and ground centre	Japan Airlines p 385 A93-52306	An operational evaluation process for long-duration mission habitats in space p 345 A93-42114
personnel in the Columbus utilisation programme	Control of infection in an international airline p 407 A93-52867	Computer-supported collaborative work - A new agenda
p 226 N93-24382	Comparisons of molecular sieve oxygen concentrators	for human factors engineering p 348 A93-42841
Columbus payload requirements in human physiology p 220 N93-24386	for potential medical use aboard commercial aircraft	Distributed environmental control p 32 N93-11924
CEBAS-Aquarack: An artificial aquatic animal plant	[AD-A253648] p 31 N93-11279	Design of a portable powered seat lift p 195 N93-22190
ecosystem as a tool for basic research in the Columbus	Workshop on Aeronautical Decision Making (ADM). Volume 1: Executive summary	COMPUTER AIDED MAPPING
Space Station p 210 N93-24401 COMBAT	[AD-A257016] p 99 N93-16189	Pictorial communication in virtual and real environments
The effect of wearing protective chemical warfare	COMMONALITY	[ISBN 0-74840-008-7] p 182 A93-26896
combat clothing on human performance	Space biology initiative program definition review. Trade	COMPUTER AIDED TOMOGRAPHY
p 230 A93-30287 A cognitive classification of pilot performance in air	study 4: Design modularity and commonality p 208 N93-23071	New techniques for positron emission tomography in the study of human neurological disorders
combat p 347 A93-42814	COMMUNICATING	[DE92-015353] p 23 N93-11873
The effects of wearing protective chemical warfare	Questioning mechanisms during complex learning	New techniques for positron emission tomography in
combat clothing on human performance [AD-A250716] p 35 N93-12491	[AD-A247382] p 26 N93-11415 COMMUNICATION EQUIPMENT	the study of human neurological disorders [DE93-002098] p 95 N93-15900
Walter Reed Army Institute of Research biannual	Evaluation of lightweight and low profile communications	Non-invasive evaluation of the cardiac autonomic
report	devices for Respiratory Protective system 21 (RESPO	nervous system by PET
[AD-A255630] p 52 N93-14162 The effect of combat on the work/rest schedules and	21) [AD-A253393] p 30 N93-10217	[DE92-041077] p 96 N93-16441 COMPUTER ANIMATION
fatigue of A-6 and F-14 aviators during Operation Desert	Evaluation of test methods and requirements for	Human-like agents with posture planning ability
Shield/Storm	respiratory protection systems 21	p 192 A93-29118
[AO-A258146] p 122 N93-18292 The effect of combat on aircrew subjective readiness	[AD-A262466] p 317 N93-28757 COMMUNICATION THEORY	COMPUTER ASSISTED INSTRUCTION Dimensions of complexity in learning from interactive
and LSO grades during Operation Desert Shield/Storm	Pictorial communication in virtual and real	instruction for robotic systems deployed in space
[AD-A258156] p 132 N93-18294	environments	p 191 A93-29111
Helicopter night vision goggle testing in the United Kingdom p 148 N93-19917	[ISBN 0-74840-008-7] p 182 A93-26896	Computerized teaching of pilots to spatial orientation flight tasks p 404 A93-52694
Subjective fatigue in A-6, F-14, and F/A-18 aircrews	COMPATIBILITY Helicopter night vision goggle testing in the United	Direct manipulation and intermittent automation in
during operations Desert Shield and Storm	Kingdom p 148 N93-19917	advanced cockpits
[AD-A259243] p 171 N93-20580 Combat Automation for Airborne Weapon Systems:	Space biology initiative program definition review. Trade	[AD-A253814] p 32 N93-11784 Human factors research in aircrew performance and
Man/Machine Interface Trends and Technologies	study 6: Space Station Freedom/spacelab modules compatibility	training: 1986-1991
[AGARD-CP-520] p 317 N93-28850	[EEI-89-236] p 209 N93-23081	[AD-A254455] p 63 N93-12609
Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with	COMPLEMENT (BIOLOGY)	Human Factors in Aviation Maintenance, phase 2 [DOT/FAA/AM-93/5] p 267 N93-26089
standard issue earplugs	Variability over time of complement activation induced	COMPUTER DESIGN
[AD-A263011] p 350 N93-29406 COMBUSTION	by air bubbles in human and rabbit sera p 323 A93-42190	Formal aspects of human-computer interaction p 66 N93-13909
Protective helmet assembly	COMPLEX COMPOUNDS	COMPUTER GRAPHICS
[NASA-CASE-MSC-21842-1] p 106 N93-17088	Catalytic accretion of thermal heterocomplex molecules	Using the stereokinetic effect to convey depth -
COMBUSTION PRODUCTS Variations in time-to-incapacitation and blood cynanide	from amino acids in aqueous milieu p 354 A93-43793 COMPLEX SYSTEMS	Computationally efficient depth-from-motion displays p 102 A93-19987
values for rats exposed to two hydrogen cyanide gas	A monitoring and control system for complex	Pictorial communication in virtual and real
concentrations	man-machine systems: Preliminary design	environments
DOT/FAA/AM-93/8 p 283 N93-27158 COMET NUCLEI	p 70 N93-14951 Acquisition and production of skilled behavior in dynamic	[ISBN 0-74840-008-7] p 182 A93-26896 Workload or situational awareness? TLX vs. SART for
Comets as a possible source of prebiotic molecules	decision-making tasks	aerospace systems design evaluation Task Load
p 109 A93-17979	JNASA-CR-192361 J p 181 N93-20908	Index p 175 A93-27139
Computational study of radiation chemical processing in comet nuclei p 109 A93-17982	A decision-theoretic approach to the display of information for time-critical decisions: The Vista project	Target designation in a perspective view, 3-D map using a joystick, hand tracker, or voice p 186 A93-27145
Thermal evolution of cometary nuclei by radioactive	p 367 N93-32152	Compensating lags in head-coupled displays using head
heating and possible formation of organic chemicals	COMPONENT RELIABILITY	position prediction and image deflection p 231 A93-31782
p 196 A93-27561 COMETS	Submarine Advanced Integrated Life Support system (SAILS) program	A teleoperation training simulator with visual and
Comets and the origins and evolution of life; Proceedings	[AD-A253564] p 32 N93-11812	kinesthetic force virtual reality p 233 A93-33448
of the Conference, Univ. of Wisconsin, Eau Claire, Sept.	COMPOSITE STRUCTURES	Visual search in virtual environments p 233 A93-33450
30-Oct. 2, 1991 p 109 A93-17976 Comets and the formation of biochemical compounds	The design of mechanically compatible fasteners for human mandible reconstruction p 253 N93-25569	System for generating dynamic video imagery for human
on the primitive earth - A review p 109 A93-17977	Shape optimization of tibial prosthesis components	factors research
Cornet impacts and chemical evolution on the bombarded earth p 109 A93-17980	[NASA-CR-191123] p 246 N93-27085 COMPOUND A	[AD-A248675] p 31 N93-11743 Advanced technology for portable personal
Cometary supply of terrestrial organics - Lessons from	Marine microbial production of dimethylsulfide from	visualization
the K/T and the present epoch p 109 A93-17981	dissolved dimethylsulfoniopropionate	[AD-A253808] p 32 N93-11783
Terrestrial and extraterrestrial sources of molecular homochirality p 110 A93-17986	[NASA-CR-193278] p 330 N93-30665 COMPRESSED GAS	Modeling clothed figures [AD-A257037] ρ 71 N93-15363
COMFORT	Comparisons of molecular sieve oxygen concentrators	The effects of iconic presentation on individuals
Discomfort glare from high-intensity discharge	for potential medical use aboard commercial aircraft	[AD-A258785] p 133 N93-18949
headlamps: Effects of context and experience [PB93-174720] p 336 N93-30659	[AD-A253648] p 31 N93-11279 COMPRESSION LOADS	Measures of user-system interface effectiveness: An encoding scheme and indicators for assessing the usability
COMMAND AND CONTROL	Power assist EVA glove development	of graphical, direct-manipulation style user interfaces
Controllability of the voice command system - A	[SAE PAPER 921255] p 299 A93-41425	[AD-A260606] p 265 N93-25840
preliminary study p 27 A93-11287 Intelligent sensing and control for advanced	COMPUTATION Mathematics and biology: The interface, challenges and	Ergonomic development of digital map displays
teleoperation p 409 A93-54158	opportunities	p 320 N93-28866 COMPUTER NETWORKS
From pilot's associate to satellite controller's associate p 32 N93-11922	[DE92-041207] p 82 N93-17359	Operator/system communication - An optimizing
associate p 32 N93-11922 Measures of user-system interface effectiveness:	COMPUTATIONAL CHEMISTRY Computational study of radiation chemical processing	decision tool p 101 A93-19104
Assessment of structured judgment evaluation techniques	in comet nuclei p 109 A93-17982	Advanced satellite workstation: An integrated workstation environment for operational support of satellite
for graphical, direct-manipulation style interfaces [AD-A254493] p 63 N93-12576	COMPUTER AIDED DESIGN	system planning and analysis p 33 N93-11941
[AD-A254493] p 63 N93-12576 Automatic information processing and high performance	Vision modelling applications for display optimisation p 29 A93-13414	COMPUTER PROGRAMMING
skills	Human visual performance model for crewstation	Teleprogramming a cooperative space robotic workcell
[AD-A258473] p 132 N93-18273 Modeling the dynamics of mental workload and human	design p 182 A93-26887	for Space Station p 190 A93-29109 Proceedings of Workshop 1: The Human Brainmap
performance in complex systems	Visualization and modeling of factors influencing visibility in computer-aided crewstation design	Database
[AD-A258553] p 135 N93-19956	[SAE PAPER 921135] p 292 A93-41323	[AD-A260720] p 258 N93-25654
COMMERCIAL AIRCRAFT Peripheral arterial thrombosis related to commercial	Air Handling and Atmosphere Conditioning systems for manned spacecraft - A design and performance data	COMPUTER PROGRAMS A computer model to determine the primary contributors
airline flights - Another manifestation of the economy class	Survey	to relative radiation dose received by astronauts
syndrome p 215 A93-32775	SAE PAPER 921350 p 306 A93-41509	p 43 A93-13935

SUBJECT INDEX		CONFERENCES
CREWCUT - A tool for modeling the effects of high	The cognitive, perceptual, and neural bases of skilled	Occupant kinematics simulation of the Kegworth air
workload on human performance p 178 A93-27180	performance	accident p 142 N93-19662
Stereoscopic displays and applications III; Proceedings	[AD-A258236] p 130 N93-17820	Computer aided methods for simulating occupant
of the Meeting, San Jose, CA, Feb. 12, 13, 1992	Modeling of a full vision system using combined	response to impact using OASYS DYNA3D
SPIE-1669 p 408 A93-53119 Development of the Personnel-based System Evaluation	Visual/Haptic search for remote object identification [AD-A260977] p 266 N93-25867	p 142 N93-19666
Aid (PER-SEVAL) performance shaping functions	Receptoral and neural aliasing	Improving manikin biofidelity p 142 N93-19668
[AD-A252820] p 26 N93-11779	[AD-A261438] p 261 N93-26489	Flight above a virtual world p 145 N93-19766
The human-electronic crew: Is the team maturing? The	A modular head/eye platform for real-time reactive	Mission and Safety Critical (MASC): An EVACS simulation with nested transactions
2nd Joint GAF/RAF/USAF Workshop on	vision	[NASA-CR-192295] p 149 N93-20314
Human-Electronic Crew Teamwork [AD-A256192] p 69 N93-14520	[OUEL-1941/92] p 320 N93-28897 A tutorial on exit pupils and eye rotation with virtual image	Microcomputer based software for biodynamic
High-resolution contrast control on a video display:	optical displays	simulation p 196 N93-22191
Method and calibration	[AD-A262399] p 333 N93-29400	A linear, time-varying simulation of the respiratory tract
[AD-A256552] p 60 N93-15400	Modelling and simulation of human retinal vision	system
An automated processing system for food frequency and	processing p 335 N93-30269	[DE93-004515] p 218 N93-24009
nutrition knowledge questionnaire p 367 N93-32241	A vision system planner for increasing the autonomy of the Extravehicular Activity Helper/Retriever	Computerized atmospheric trace contaminant control simulation for manned spacecraft
DOKMA: A document oriented communication model	[NASA-CR-193301] p 365 N93-31844	[NASA-TM-108409] p 321 N93-28977
for medical applications as a basis of a role system in	COMPUTERIZED SIMULATION	Modelling and simulation of human retinal vision
the medical field	A computer model to determine the primary contributors	processing p 335 N93-30269
[ETN-93-93799] p 284 N93-28469 COMPUTER SYSTEMS DESIGN	to relative radiation dose received by astronauts	CONCENTRATION (COMPOSITION)
A physician's workstation designed for NASA and	p 43 A93-13935 Heat stress in protective clothing - Validation of a	Effects of running the Bostom Marathon on plasma
earth-based applications p 189 A93-28695	computer model and the Heat-Humidity Index (HHI)	concentrations of large neutral amino acids p 160 A93-27048
Advanced cockpit-mission and image management	p 88 A93-18040	Melatonin concentrations in the sudden infant death
p 144 N93-19760	Computer-assisted three-dimensional reconstruction	syndrome p 203 A93-33030
COMPUTER SYSTEMS PROGRAMS	and simulations of vestibular macular neural connectivities p 104 A93-20700	Comment on 'Summary and implications of reported
Advanced satellite workstation: An integrated workstation environment for operational support of satellite	Pictorial communication in virtual and real	amino acid concentrations in the Murchison meteorite' by
system planning and analysis p 33 N93-11941	environments	E. L. Shock and M. D. Schulte p 412 A93-53294
Operator Performance Support System (OPSS)	[ISBN 0-74840-008-7] p 182 A93-26896	CONCENTRATORS
p 196 N93-22195	An improved simulation based biomechanical model to	Comparisons of molecular sieve oxygen concentrators for potential medical use aboard commercial aircraft
COMPUTER TECHNIQUES Computer-aided mechanogenesis of skeletal muscle	estimate static muscle loadings p 160 A93-27172 CREWCUT - A new tool for predicting human	[AD-A253648] p 31 N93-11279
organs from single cells in vitro p 205 A93-33045	performance in conceptual systems p 178 A93-27179	CONCRETE STRUCTURES
Visual perception of structure from motion	CREWCUT - A tool for modeling the effects of high	Concrete lunar base investigation p 107 N93-17445
[AD-A253235] p 26 N93-11503	workload on human performance p 178 A93-27180	CONDENSATES
Operator vision aids for space teleoperation assembly	Networked simulation for team training of Space Station	Methods development for total organic carbon
and servicing p 33 N93-11981 The relationship between computer scoring and	astronauts, ground controllers, and scientists - A training and development environment p 179 A93-27188	accountability [NASA-CR-184438] p 40 N93-12949
safety-pilot grading of flight performance	Temporal analysis of the October 1989 proton flare using	CONDENSED MATTER PHYSICS
[AD-A256245] p 58 N93-14600	computerized anatomical models p 216 A93-32785	Spontaneous regulating mechanisms that may have led
A computer-based visual analog scale	Analysis of the Variable Pressure Growth Chamber using	to the origin of life
[AD-A258152] p 122 N93-18280	the CASE/A simulation package SAE PAPER 921122 p 291 A93-41314	[DE93-603677] p 331 N93-31161
Medical evaluation of spatial disorientation mishaps p 134 N93-19703	The effect of geometric field of view and tunnel design	CONDITIONED REFLEXES The role of dermorphin in the regulation of the winter
Digital mammography, cancer screening: Factors	for perspective flight-path displays	hibernation processes in mammals p 38 A93-16748
important for image compression p 221 N93-24551	[SAE PAPER 921131] p 291 A93-41319	Linear vestibuloocular reflex during motion along axes
Automatic detection of seizures with applications	Computer modeling of the Variable Pressure Growth	between nasooccipital and interaural
p 254 N93-25592 Proceedings of Workshop 1: The Human Brainmap	Chamber using the CASE/A simulation package [SAE PAPER 921354] p 306 A93-41513	p 203 A93-32773 Investigating motion sickness using the conditioned
Database	A computer simulation model for attention distribution	taste aversion paradigm p 400 A93-55937
[AD-A260720] p 258 N93-25654	and event generation p 340 A93-45323	CONDITIONING (LEARNING)
The adult literacy evaluator: An intelligent	Physical and digital simulations for IVA robotics	Investigating motion sickness using the conditioned
computer-aided training system for diagnosing adult	p 391 A93-49445 Line-of-sight determination in real-time simulations	taste aversion paradigm p 400 A93-55937
illiterates p 258 N93-26082 The aircraft position tests: A computer generated	[AIAA PAPER 93-3567] p 406 A93-52666	CONFERENCES Human factors on advanced flight decks; Proceedings
process for acquisition of spatial orientation capability	3-D target designation using two control devices and	of the Conference, London, United Kingdom, Mar. 14,
p 344 N93-31236	an aiding technique in fighter cockpits	1991
COMPUTER VISION	p 408 A93-53120	ISBN 0-903409-85-2 p 29 A93-13408
Kalman-filter-based machine vision for controlling free-flying unmanned remote vehicles	Operator workload predictions for the revised AH-64A workload prediction model, volume 1	A lunar-based chemical analysis laboratory ISBN 0-937194-25-5 p 39 A93-17426
p 135 A93-22916	[AD-A254198] p 30 N93-10261	Frontier Symposium on Clinical Pharmacology in Space,
Accuracy of locating circular features using machine	Computer simulations of object discrimination by visual	10th, Houston, TX, May 10, 11, 1990, Proceedings
vision for robotic systems p 182 A93-27022	cortex	p 83 A93-17527
Vision navigator for free-flying robots	[AD-A253345] p 12 N93-10271 Self-programming of matter and the evolution of	Comets and the origins and evolution of life; Proceedings
p 183 A93-27025 Incorporating robot vision in tele-autonomous systems	proto-biological organizations	of the Conference, Univ. of Wisconsin, Eau Claire, Sept. 30-Oct. 2, 1991 p 109 A93-17976
p 184 A93-27031	[DE92-015244] p.5 N93-10628	K.E. Tsiolkovsky and biomedical problems connected
An experiment in vision based autonomous grasping	System for generating dynamic video imagery for human	with space exploration; Lectures Devoted to K.E.
within a reduced gravity environment	factors research	Tsiolkovsky's Ideas, 25th, Kaluga, Russia, Sept. 11-14,
p 193 A93-29137 An operator interface design for a telerobotic inspection	[AD-A248675] p 31 N93-11743 New techniques for positron emission tomography in	1990, Transactions p 90 A93-18406 Conference on Correlations of Aging and Space Effects
system	the study of human neurological disorders	on Biosystems, Oct. 30-Nov. 1, 1989, Proceedings
[AIAA PAPER 93-1160] p 231 A93-31034	[DE92-015353] p 23 N93-11873	Book p 79 A93-20651
A comparison of neural network and fuzzy clustering	Distributed environmental control p 32 N93-11924	Human vision, visual processing, and digital display 11;
techniques in segmenting magnetic resonance images of	Super auditory localization for improved human-machine interfaces	Proceedings of the Meeting, San Jose, CA, Feb. 27-Mar.
the brain p 214 A93-31267 Temporal Frequency Spectrum for describing and	[AD-A254699] p 34 N93-12229	1, 1991 SPIE-1453 p 137 A93-25363
modeling motion perception p 232 A93-33250	Simulation of excitatory/inhibitory interactions in single	Large-screen-projection, avionic, and helmet-mounted
Visual specification of robot motion	auditory neurons	displays; Proceedings of the Meeting, San Jose, CA, Feb.
p 348 A93-42845	[AD-A253614] p 50 N93-13252	26-28, 1991
Virtual landings developing Enhanced Vision Systems for VFR p 410 A93-54868	Hybrid 2 and hybrid 3 dummy neck properties for computer modeling	[SPIE-1456] p 181 A93-26881 Cooperative intelligent robotics in space II; Proceedings
A new test of scanning and monitoring ability: Methods	[AD-A255544] p 66 N93-13874	of the Meeting, Boston, MA, Nov. 12-14, 1991
and initial results	Directory of design support methods	[SPIE-1612] p 182 A93-27001
[AD-A249123] p 24 N93-10321	[AD-A256987] p 104 N93-16258	Human Factors Society, Annual Meeting, 35th, San
Neural network retinal model real time implementation	A review of models of the human temperature regulation system	Francisco, CA, Sept. 2-6, 1991, Proceedings. Vols. 1 & 2
[AD-A255652] p 52 N93-14210 Parametric study of diffusion-enhancement networks for	[AD-A258023] p 120 N93-17918	p 185 A93-27126 Cooperative intelligent robotics in space III; Proceedings
spatiotemporal grouping in real-time artificial vision	Automation of closed environments in space for human	of the Meeting, Boston, MA, Nov. 16-18, 1992
[AD-A256059] p 58 N93-14580	comfort and safety	[SPIE-1829] p 190 A93-29101
The perception of articulated motion: Recognizing	[NASA-CR-192045] p 138 N93-17971	Helmet-mounted displays III; Proceedings of the
moving light displays IAD-A2560461 p 59 N93-14660	Space life support engineering program [NASA-CR-192188] p 141 N93-19039	Meeting, Orlando, FL, Apr. 21, 22, 1992 [SPIE-1695] p 227 A93-30051
[AD-A256046] p 59 N93-14660	[MADA-011-195100] b 141 Mag-1903a	10001 h 221 M30-30031

CONFINEMENT SUBJECT INDEX

Water in the solar system and its role in exobiology; Evaluation of capillary electrophoresis for in-flight ionic What optical cues do pilots use to initiate the landing Proceedings of the European Geophysical Society General flare? Results of a piloted simulator experiment contaminant monitoring of SSF potable water p 406 A93-52661 ISAE PAPER 921268 p 300 A93-41438 Assembly, 26th, Wiesbaden, Germany, Apr. 22-26, 1991 1AIAA PAPER 93-35611 p 268 A93-36551 Joint-space Lyapunov-based direct adaptive control of Biofilm formation and control in a simulated spacecraft Clinostats and centrifuges: Their use, value, and a kinematically redundant telerobot manipulator water system - Three year results limitations in gravitational biological research; Symposium, Washington, Oct. 19, 1991, Report p 375 A93-49206 p 407 A93-53038 [SAE PAPER 921310] p 303 A93-41472 Human factors applications in control systems design Mitigation of dust contamination during EVA operations Visual data interpretation; Proceedings of the Meeting, for ground testing of turbine engines p 345 A93-42107 on the moon and Mars San Jose, CA, Feb. 10-11, 1992 p 409 A93-54410 p 331 A93-42126 Medical care on the moon p 32 N93-11924 [SPIE-1668] Distributed environmental control p 391 A93-49451 Space habitat environmental health - A systems issue Stereoscopic displays and applications III; Proceedings Design, construction, and control of a two p 347 A93-42151 of the Meeting, San Jose, CA, Feb. 12, 13, 1992 degree-of-freedom electric direct-drive human power Optimization of 15 parameters influencing the long-term p 65 N93-13486 p 408 A93-53119 amplifier survival of bacteria in aquatic systems [NASA-CR-192571] Allergic, Immunological and Infectious Disease Problems A monitoring and control system for complex p 359 N93-32365 in Aerospace Medicine man-machine systems: Preliminary design CONTOURS [AGARD-CP-518] p 14 N93-11283 p 70 N93-14951 Perceptual dimensions of visual scenes relevant for Diversity in biological research Automation of closed environments in space for human simulating low-altitude flight INSF-92-191 p 42 N93-13700 IAD-A2546451 p 57 N93-12662 comfort and safety Overview: Exobiology in solar system exploration p 138 N93-17971 1NASA-CR-1920451 Methods for characterizing the human head for the p 112 N93-18546 Preliminary design of a radiator shading device for a design of helmets Advanced Aircraft Interfaces: The Machine Side of the [AD-A263875] lunar outpost p 353 N93-29889 p 139 N93-18019 Man-Machine Interface [NASA-CR-192016] CONTRAST [AGARD-CP-521] Design requirements for force reflecting master partrollers p 139 N93-18035 Human speed perception is contrast dependent Human Factors Issues in Aircraft Maintenance and controllers p 174 A93-26950 Inspection. Science, technology, and management: A Mission and Safety Critical (MASC): An EVACS Analysis of factors influencing contrast vision in normal simulation with nested transactions p 332 A93-44848 [PB93-146975] p 149 N93-20314 p 234 N93-23647 Spatial contrast sensitivity through aviator's night vision 1NASA-CR-1922951 Proceedings of a Workshop on Molecular Nuclear Zero-G life support for Space Station Freedom imaging system p 393 A93-52300 p 233 N93-22640 Medicine High-resolution contrast control on a video display: [DE93-010828] Human factors engineering: A key element of p 285 N93-28835 Method and calibration Combat Automation for Airborne Weapon Systems: instrumentation and control system design LAD-A256552 L p 60 N93-15400 p 264 N93-25415 Man/Machine Interface Trends and Technologies [AGARD-CP-520] p 317 N93-28850 IDE93-006731 | CONTROL BOARDS Power assist EVA glove development Gloved operator performance study p 314 N93-27850 Introductions to the Proceedings of the Fourteenth p 104 N93-16048 LAD-A2568941 CONTROL EQUIPMENT Lunar base thermal management/power system nalysis and design p 315 N93-27985 Symposium on Biotechnology for Fuels and Chemicals [DE93-006235] p 276 N93-28890 An evaluation of miniaturized aircraft keyboards analysis and design CONFINEMENT Automation of closed environments in space for human p 348 A93-42844 comfort and safety p 352 N93-29734 Long-duration isolation and confinement: Human factors Automation of closed environments in space for human issues and research requirements CONTROL THEORY p 100 N93-16808 comfort and safety CONJUGATION I NASA-CR-192045 I p 138 N93-17971 Theoretical and experimental studies for continuous path Immunoconjugates: Magic bullets for cancer therapy? 13 C NMR spectra of allosteric effectors of control of flexible manipulator mounted on a free-flying p 253 N93-25567 space robot hemoglobin **CONNECTIVE TISSUE** [AD-A262979] [AIAA PAPER 93-3863] p 392 A93-51449 p 284 N93-28293 Mission and Safety Critical (MASC): An EVACS simulation with nested transactions Wound healing and connective tissue metabolism: The CONTROL SIMULATION role of hyperbaric oxygen therapy Training for avionics evaluation LAD-A2624831 p 285 N93-28759 [AIAA PAPER 92-4068] [NASA-CR-192295] p 149 N93-20314 p 24 A93-11254 CONSERVATION Study of the relationship between therapeutic effects Daily exercise routines p 360 N93-31455 N93-31456 Variable-Volume Flushing (V-VF) device for water Atmospheric control systems p 365 and control parameters of ECP using a simulation p 195 N93-22167 conservation in toilets p 11 A93-13716 Rotational speed control p 365 N93-31457 CONSISTENCY A distributed telerobotics system for space operations CONTROL VALVES p 192 A93-29132 Regenerable biocide delivery unit, volume 1 Disruption and maintenance of skilled visual search as a function of degree of consistency p 389 A93-52501 p 274 N93-27122 What optical cues do pilots use to initiate the landing [NASA-CR-185701-VOL-1] CONSOLES flare? Results of a piloted simulator experiment CONTROLLABILITY [AIAA PAPER 93-3561] p 406 A93-52661 Controllability of the voice command system - A reliminary study p 27 A93-11287 An evaluation of miniaturized aircraft keyboards p 348 A93-42844 Automation of closed environments in space for human preliminary study comfort and safety CONTROLLED ATMOSPHERES CONSTRAINTS [NASA-CR-192045] p 138 N93-17971 Constraints on learning in dynamic synapses Controlled Ecological Life Support System - CELSS Virtual interface applications for airborne weapons [PREPRINT-890] p 62 A93-17432 p 100 N93-17026 p 318 N93-28858 systems CONSTRICTORS Initial accomplishments of the Environmental Control Computerized atmospheric trace contaminant control Contractile properties of the calf triceps muscle in and Life Support System (ECLSS) atmosphere simulation for manned spacecraft revitalization (AR) predevelopment operational system test humans exposed to simulated weightlessness INASA-TM-1084091 p 321 N93-28977 (POST) for the Space Station Freedom (SSF) ISAE PAPER 921186| p 294 A93-41365 p 45 A93-15168 CONTROL SYSTEMS DESIGN CONSTRUCTION Dynamic analysis to evaluate viscoelastic passive Vertical regolith shield wall construction for lunar base Space Shuttle Orbiter oxygen partial pressure sensing damping augmentation for the Space Shuttle Remote applications p 107 N93-17446 and control system improvements Manipulator System p 28 A93-12222 CONSUMABLES (SPACECREW SUPPLIES) ISAE PAPER 9213471 p 305 A93-41506 Initial experiments on the end-point control of a 2-DOF The Minitron system for growth of small plants under ontrolled environment conditions p 358 A93-46471 Consumables and wastes estimations for the First Lunar p 183 A93-27024 long-reach elastic manipulator Knowledge-based task planning for the Special Purpose
Dextrous Manipulator p 191 A93-29110 controlled environment conditions [SAE PAPER 921287] p 302 A93-41453 Effects of microclimate cooling on physiology and performance while flying the UH-60 helicopter simulator Life support systems Compatibility and consistency in display-control systems [AAS PAPER 91-320] p 409 A93-54308 in NBC conditions in a controlled heat environment Implications for aircraft decision aid design p 129 N93-20400 **CONTACT DERMATITIS** p 230 A93-30454 IAD-A2585021 Occupational dermatitis in the aircraft industry - 35 years Centralized, decentralized, and independent control of a flexible manipulator on a flexible base Effects on physiology and performance of wearing the aviator NBC ensemble while flying the UH-60 helicopter of progress p 215 A93-32776 **CONTACT LENSES** p 231 A93-31517 flight simulator in a controlled heat environment IAD-A2599091 HERA - A reliable and safe space robot p 235 N93-23995 Contact lenses in aviation - The Marine Corps p 263 A93-35571 experience p 289 A93-41172 Membrane technology: A search for membranes for Pressure, composition, and temperature control of cabin submarine atmosphere control Prevalence of corrective lens wear in Royal Australian IAD-A260581 I atmosphere on Space Station Freedom p 266 N93-25904 Air Force flight crews p 289 A93-41173 ISAE PAPER 9212161 p 296 A93-41392 CONTROLLERS Operational use of contact lenses by military aircrew Kinematics and control of a fully parallel force-reflecting p 95 N93-15824 Ground-based control of Space Station Freedom-based [AGARD-AG-334] hand controller for manipulator teleoperation p 263 A93-35570 The use of extended wear contact lenses in the aviation p 364 A93-45598 Human-in-the-loop evaluation of RMS Active Damping environment: An Army-wide study Distribution of functions in a man-machine control Auamentation IAD-A2609381 p 255 N93-26218 p 364 A93-45687 system of a certain type [AIAA PAPER 93-3875] p 393 A93-51460 CONTAMINANTS and development of a master-slave Ocular attention-sensing interface system Space habitat contaminant growth models. II p 390 A93-49357 teleoperated robot p 345 A93-42094 [NASA-CR-190884] p 65 N93-13450 A manipulator control testbed - Implementation and construction, and control of a two Development of novel models for describing multiple applications degree-of-freedom electric direct-drive human power amplifier p 65 N93-13486 toxicity effects IAAS PAPER 92-0541 p 392 A93-50594 LAD-A2644391 p 336 N93-30422 Optimizing dynamic transparency in teleoperator Control system and method for prosthetic devices CONTAMINATION architectures

[AAS PAPER 92-056]

JAIAA PAPER 93-38661

A space manipulator with inertially

[NASA-CASE-MSC-21941-1]

controllers

Design requirements for force reflecting master

p 392 A93-50596

p 393 A93-51452

fixed base?

p 106 N93-17087

p 139 N93-18035

invading species | SAE PAPER 921211|

Aquatic biofilms and their responses to disinfection and

p 296 A93-41387

SUBJECT INDEX		CREW PROCEDURES (INFLIGHT)
A modular head/eye platform for real-time reactive	Cognition and the brain	Space biology initiative program definition review. Trade
vision	[AD-A255483] p 59 N93-14788	study 1: Automation costs versus crew utilization
[OUEL-1941/92] p 320 N93-28897	Conversion of temporal correlations between stimuli to spatial correlations between attractors	p 208 N93-23070
Integration of advanced teleoperation technologies for control of space robots p 366 N93-32107	[PREPRINT-856] p 96 N93-16962	COSTS Adaptive automation and human performance. 3: Effects
CONVECTION	CORTICOSTEROIDS	of practice on the benefits and costs of automation
A second postcooling afterdrop - More evidence for a	Effects of antiorthostatic suspension and corticosterone on macrophage and spleen cell function	shifts
convective mechanism p 44 A93-14969 CONVECTIVE HEAT TRANSFER	p 153 A93-28693	[AD-A254381] p 64 N93-12860 Mathematics and biology: The interface, challenges and
Correlation of results of radiant heat test and convective	Effect of dexamethasone on proliferating osteoblasts -	opportunities
heat test for three layered protective clothing	Inhibition of prostaglandin E2 synthesis, DNA synthesis, and alterations in actin cytoskeleton	[DE92-041207] p 82 N93-17359
p 194 N93-21161 COOL STARS	p 155 A93-28728	The US Navy Healthy Back Program: Effect on back
Laboratory simulation of organic grain mantles	CORTISONE	knowledge among recruits [AD-A258368] p 121 N93-18210
p 268 A93-36554	The effect of G-experience on heart rate during +Gz loading p 333 A93-45322	COUNTERMEASURES
COOLING Heat strain during at-sea helicopter operations and the	Regulation of the carbohydrate metabolism in humans	Program development for exercise countermeasures
effect of passive microclimate cooling p 7 A93-10330	residing in the North p 384 A93-51117	[SAE PAPER 921140] p 292 A93-41327 Biomedical Monitoring and Countermeasures Facility
Decrement in manual arm performance during whole body cooling p 88 A93-18038	COSMIC DUST Comet Halley as an aggregate of interstellar dust and	p 205 N93-22624
The efficiency of thermoregulatory responses in the	further evidence for the photochemical formation of	The role of pyridoxine as a countermeasure for in-flight
cooling of the organism p 325 A93-43136	organics in the interstellar medium p 108 A93-17824	loss of lean body mass p 255 N93-26068
Effect of protective clothing ensembles on artillery	COSMIC RAYS On the biological effects of cosmic rays - Epidemiological	Issues on human acceleration tolerance after long-duration space flights
battery crew performance [AD-A254327] p 64 N93-12960	studies p 239 A93-34858	[NASA-TM-104753] p 334 N93-29651
Evaluation of two microclimate cooling air vests on a	Radiation conditions onboard passenger aircraft	COUPLING
heated mannequin [AD-A259410] p 194 N93-21269	p 249 A93-35230 Depth-dose equivalent relationship for cosmic rays at	Nonlinear optical properties of porphyrin and chlorophyll dimers studied by degenerated four wave mixing
A heat transfer analysis of a mobile vehicle	various solar minima p 391 A93-49564	DE93-006411 p 210 N93-24028
radiation-shielded operator compartment	Katz model prediction of Caenorhabditis elegans	CRACKING (CHÉMICAL ENGINEERING),
[DE93-007428] p 264 N93-25318 COOLING SYSTEMS	mutagenesis on STS-42 [NASA-TM-4383] p 50 N93-13023	Recent regenerative ECLSS technology developments in Europe
The optimum design of personal liquid cooling system	COSMOCHEMISTRY	[SAE PAPER 921332] . p 304 A93-41493
p 60 A93-14314	Kinetics of peptide hydrolysis and amino acid	CRASH INJURIES
Space Shuttle crew compartment debris-contamination	decomposition at high temperature space biochemical evolution p 411 A93-53289	The effects of structural failure on injuries sustained in the M1 Boeing 737 disaster, January 1989
[SAE PAPER 921345] p 305 A93-41504	COSMONAUTS	p 118 A93-25201
Physiological stress from chemical defense clothing and	Reaction characteristics of several neuroregulating	The effects of brace position on injuries sustained in
equipment [AD-A255786] p 51 N93-14028	systems of cosmonauts after a 366-day-long space flight p 45 A93-15167	the M1 Boeing 737/400 disaster, January 1989 p 118 A93-25202
[AD-A255786] p 51 N93-14028 Effects of microclimate cooling on physiology and	Altitude stress and cosmonaut training	Analysis of injuries following the crash of Avianca Flight
performance while flying the UH-60 helicopter simulator	p 262 A93-35235	52 p 382 A93-49562
in NBC conditions in a controlled heat environment [AD-A258502] p 129 N93-20400	Functional state of the cardiovascular system of the cosmonauts of the sixth primary mission on the Mir	CRASH LANDING The identification and quantitation of triamterene in blood
Lightweight passive microclimate cooling device	station p 249 A93-35238	and urine from a fatal aircraft accident
[AD-A262262] p 317 N93-28112	Protein composition of the blood plasma of cosmonauts	(AD-A254550) p 49 N93-12612
Evaluation of personal cooling systems in conjunction with explosive ordnance disposal suits	after lengthy orbital flights p 249 A93-35243 Utilization of the graded universal testing system to	Occupant kinematics simulation of the Kegworth air accident p 142 N93-19662
[AD-A262862] p 350 N93-29471	increase the efficiency for assessing aerobic and anaerobic	Is axial loading a primary mechanism of injury to the
COORDINATES	capacity p 246 N93-26077	lower limb in an impact aircraft accident?
Evaluation of lens distortion errors in video-based motion analysis	COSMOS SATELLITES Engineering and technical support of experiments on	p 125 N93-19664 Occupant simulation as an aspect of flight safety
[NASA-TP-3266] p 258 N93-25736	board the Cosmos-2044 biosatellite p 77 A93-18419	research p 142 N93-19665
COORDINATION	Turning-over reaction during free fall in	CRASHES
Predictable eye-head coordination during driving p 57 A93-16373	labyrinthectomized rats after a flight on the Cosmos 936 biosatellite p 241 A93-35246	Can injury scoring techniques provide additional information for crash investigators? p 125 N93-19663
An evaluation of crew coordination and performance	COST ANALYSIS	The design and use of automotive crash test dummies
during a simulated UH-60 helicopter mission	Susceptibility in USAF recruits to vaccine preventable	p 142 N93-19669
AD-A254984 p 35 N93-12509 Development of measures of crew coordination	diseases p 18 N93-11301	Toxicological investigations of flight accidetns: Findings and methods p 126 N93-19695
[AD-A255384] p 70 N93-14651	Introduction to training decisions modeling technologies: The training decisions system	Significance of histological postmortem findings in pilots
Eye-head-arm coordination and spinal reflexes in	[AD-A249862] p 27 N93-12252	killed in military and civil aircraft accidents in Germany (West): A 25-year-review p 126 N93-19697
weightlessness p 236 N93-24362 CORIOLIS EFFECT	Space Biology Initiative. Trade Studies, volume 1	(West): A 25-year-review p 126 N93-19697 CRASHWORTHINESS
An assessment of the deflecting effect on human	[NASA-CR-190989] p 207 N93-23068 Space biology initiative program definition review. Trade	Army cockpit delethalization program
movement due to the Coriolis inertial forces in a space vehicle p 170 A93-28758	study 5: Modification of existing hardware (COTS) versus	p 61 A93-15419 The effects of structural failure on injuries sustained in
Process for selectively recovering algae and protozoa	new hardware build cost analysis p 207 N93-23069	the M1 Boeing 737 disaster, January 1989
[NASA-CASE-MFS-26124-1-NPO] p 276 N93-29174	Space biology initiative program definition review. Trade	p 118 A93-25201
Value of frequency domain correlative cardiography	study 1: Automation costs versus crew utilization p 208 N93-23070	The effects of brace position on injuries sustained in the M1 Boeing 737/400 disaster, January 1989
(FCG) to early diagnosis of coronary heart disease	Space biology initiative program definition review. Trade	p 118 A93-25202
p 10 A93-13705	study 4: Design modularity and commonality	Computer aided methods for simulating occupant
Wall shear stress estimates in coronary artery constrictions p 170 A93-28759	p 208 N93-23071	response to impact using OASYS DYNA3D p 142 N93-19666
Hypertension and the probability of an incapacitating	Space Biology Initiative. Trade Studies, volume 2 [NASA-CR-190990] p 208 N93-23079	Design/development of an enhanced biodynamic
event over a defined period - Impact of treatment	Space biology initiative program definition review. Trade	manikin p 142 N93-19667
p 215 A93-32777 Carbon monoxide exposure of subjects with documented	study 3: Hardware miniaturization versus cost	An improved anthropometric test device p 143 N93-19670
cardiac arrhythmias	p 208 N93-23080 Space biology initiative program definition review. Trade	CREATIVITY
[PB93-179943] p 337 N93-30890	study 2: Prototype utilization in the development of space	How expert pilots think: Cognitive processes in expert
Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic	biology hardware p 209 N93-23082	decision making DOT/FAA/RD-93/9 p 288 N93-27103
studies p 362 N93-32253	Performance measurement systems: A best practices	CRETACEOUS-TERTIARY BOUNDARY
Results and management of pathological lipoprotein	study [AD-A262180] p 350 N93-29444	Detection of genetic effects of excess near-ultraviolet
concentrations and other cardiovascular risk factors in military pilots of the German Federal Armed Forces	COST EFFECTIVENESS	irradiation under exobiology conditions p 39 A93-17446
p 363 N93-32254	Introduction to training decisions modeling technologies:	Comet impacts and chemical evolution on the
CORONARY CIRCULATION	The training decisions system [AD-A249862] p 27 N93-12252	bombarded earth p 109 A93-17980
Study of the relationship between therapeutic effects and control parameters of ECP using a simulation	Automation and robotics human performance	Cometary supply of terrestrial organics - Lessons from the K/T and the present epoch p 109 A93-17981
method p 11 A93-13716	[NASA-CR-193049] p 267 N93-26153	Geography of end-Cretaceous marine bivalve
COPPEI ATION	COST ESTIMATES	extinctions n 273 A93-41075

COST ESTIMATES

Correlation of serum alpha sub 1 antitrypsin with cigarette smoking and pulmonary function status in Greek pilots, for a ten year period p 22 N93-11318

Space biology initiative program definition review. Trade study 5: Modification of existing hardware (COTS) versus new hardware build cost analysis p 207 N93-23069

p 273 A93-41075

p 231 A93-31944

extinctions p
CREW PROCEDURES (INFLIGHT)
Military aircrew head support system

CREW PROCEDURES (PREFLIGHT)
Performance consequences of automation-induced
complacency' p 286 A93-39571 An evaluation of crew coordination and performance
during a simulated UH-60 helicopter mission 1AD-A2549841 p 35 N93-12509
Space biology initiative program definition review. Trade study 1: Automation costs versus crew utilization
p 208 N93-23070
CREW PROCEDURES (PREFLIGHT) Assessing for preflight predictors of airsickness
p 8 A93-10335 The development and use of a generic nonnormal
checklist with applications in ab initio and Introductory Advanced Qualification Programs p 180 A93-27456
Cockpit checklists - Concepts, design, and use
p 389 A93-52506 Mir 1992 operations and crew training
CREW WORKSTATIONS p 226 N93-24352
Advanced displays for military operations [AIAA PAPER 92-4243] p 28 A93-13350
Human visual performance model for crewstation design p 182 A93-26887
Reclined seating in advanced crewstations - Human performance considerations p 186 A93-27151
Task-analytic evaluations of Space Station Freedom workstations p 187 A93-27157
Crew performance in Spacelab p 176 A93-27169
Visualization and modeling of factors influencing visibility in computer-aided crewstation design
SAE PAPER 921135 p 292 A93-41323 Human factors problems for aircrew-aircraft interfaces:
Where should we focus our efforts? p 144 N93-19759 EVA/manned systems p 312 N93-27789
Evolving technologies for Space Station Freedom computer-based workstations p 313 N93-27794
Abridged procedural guide to aircrew anthropometric accommodation assessment
[AD-A265220] p 366 N93-32006
Effect of protective clothing ensembles on artillery
battery crew performance [AD-A254327] p 64 N93-12960
A progressive resistance weight training program designed to improve the armor crewman's strength
[AD-A255553] p 53 N93-14556 Exercise during long term exposure to space: Value of
exercise during space exploration p 82 N93-16807 Sound attenuation characteristics of the standard
DH-132A and SPH-4 helmets worn in combination with
standard issue earplugs [AD-A263011] p 350 N93-29406
CROP GROWTH Crop interactions in polyculture and their implications
for CELSS design SAE PAPER 921197 p 295 A93-41373
Modification of yield and chlorophyll content in leaf lettuce by HPS radiation and nitrogen treatments
p 328 A93-44880 Effects of incandescent radiation on photosynthesis.
growth rate and yield of 'Waldmann's Green' leaf lettuce p 357 A93-46468
Growth and yield characteristics of 'Waldmann's Green' leaf lettuce under different photon fluxes from metal halide
or incandescent + fluorescent radiation
p 357 A93-46469 Minitron II system for precise control of the plant growth
environment p 357 A93-46470 Crop growth and associated life support for a lunar
farm p 67 N93-13994 Engineering verification of the biomass production
chamber p 67 N93-13996. Scenarios for optimizing potato productivity in a lunar
CELSS p 67 N93-13997
Lunar base thermal management/power system analysis and design p 315 N93-27985
CRYSTAL STRUCTURE
Magnetic domain state and coercivity predictions for biogenic greigite (Fe3S4) - A comparison of theory with
magnetosome observations p 38 A93-16481 CRYSTALLIZATION
Studies towards the crystallization of the rod visual pigment rhodopsin p 1 A93-11150
Effects of a microgravity environment on the crystallization of biological macromolecules
p 357 A93-45995
Depth cue interaction in telepresence and simulated
telemanipulation p 232 A93-33446 Acoustical and vibratory stimuli interdependencies and
their applications in simulation and cue synchronization [AIAA PAPER 93-3562] p 406 A93-52662

Pilot decision aiding for weapon delivery: A novel

p 317 N93-28853

approach to fire control cueing using parallel computing

```
An evaluation of B-1B pilot performance during simulated
  instrument approaches with and without status
   information
  [AD-A263874]
                                     p 353 N93-29888
    Utility of a ghost horizon and climb/dive ladder line
  tapering on a head-up display
  |AD-A264401|
                                     p 353 N93-30167
    Auditory spectro-temporal pattern analysis
                                     p 361 N93-31981
  IAD-A2646911
CUFFS
  Bar-holding prosthetic limb
INASA-CASE-MFS-28481-11
                                      p 70 N93-14870
CULTURE (SOCIAL SCIENCES)
    Multicultural factors in the space environment - Results
  of an international shuttle crew debrief
                                     p 222 A93-30277
    Space migrations: Anthropology and the humanization
                                     p 105 N93-16862
  of space
CULTURE TECHNIQUES
    Chloroflexus aurantiacus and ultraviolet radiation
  Implications for Archean shallow-water stromatolites
                                     p 400 A93-55999
    Method for culturing mammalian cells in a perfused
  bioreactor
  [NASA-CASE-MSC-21293-2]
                                       p 4 N93-10109
    Method for culturing mammalian cells in a horizontally
  rotated bioreactor
  [NASA-CASE-MSC-21294-2]
                                       p 5 N93-10110
    Biological conversion of synthesis gas culture
  development
                                       p 6 N93-12482
  IDE92-0012791
    Phytoplankton photosynthesis in natural mixed layers
  IAD-A2550101
                                      p 39 N93-12871
    Establishing laboratory standards for biological flight
   experiments
  INASA-CB-1844021
                                      p 40 N93-12901
    Microbiological methods for the water recovery systems
  test, revision 1.1
  INASA-CR-1843901
                                      p 64 N93-12966
    High density cell culture system
  [NASA-CASE-MSC-22060-1]
                                     p 114 N93-19037
    The development of an automated cell culture system
  for use in space life science research
                                     p 158 N93-21085
    Metabolic response of environmentally isolated
  microorganisms to industrial effluents: Use of a newly
  described cell culture assay
                                     p 245 N93-26066
    Wound healing and connective tissue metabolism: The
  rote of hyperbaric oxygen therapy
                                     p 285 N93-28759
  IAD-A2624831
CUMULATIVE DAMAGE
    Retinal information processing for minimum laser lesion
  detection and cumulative damage
  [AD-A259195]
                                     p 171 N93-20563
CUSHIONS
    Design of a portable powered seat lift
                                     p 195 N93-22190
CUTTING
    The design of mechanically compatible fasteners for
                                    p 253 N93-25569
  human mandible reconstruction
CYANATES
    Hydrothermal organic synthesis experiments
                                      p 41 N93-13457
  INASA-CR-191257!
CYANIDES
    Variations in time-to-incapacitation and blood cynanide
  values for rats exposed to two hydrogen cyanide gas
  concentrations
                                     p 283 N93-27158
  [DOT/FAA/AM-93/8]
CYCLIC AMP
    Changes of cAMP and cGMP content in plasma and
  urine before and after parallel swing stimulation
                                     p 213 A93-30435
    Effect of heat acclimatization on cAMP level in plasma,
  cerebrospinal fluid and preoptic area-hypothalamus in
                                     p 199 A93-30437
  hyperthermal rabbits
CYTOCHROMES
    Observation of change in cytochrome oxidase content
  of cerebral cortex in rat under +Gz stress
                                       p 3 A93-13543
    Nitrogen control of chloroplast development and
  differentiation
  I DE92-017392 I
                                      p 39 N93-12768
CYTOGENESIS
    Computer-aided mechanogenesis of skeletal muscle
  organs from single cells in vitro
                                    p 205 A93-33045
CYTOLOGY
                                       p 1 A93-11198
    To the stars with the cytoskeleton?
    Altered cell function in microgravity
                                      p 79 A93-20660
    The pituitary - Aging and spaceflown rats
                                     p 79 A93-20661
    Cellular immunosenescence - An overview
                                      p 80 A93-20663
    A method of multivariate analysis of data in the study
```

of the effects of space flight factors on the rat brain neuron

p 155 A93-28727

```
Effect of dexamethasone on proliferating osteoblasts -
  Inhibition of prostaglandin E2 synthesis, DNA synthesis,
  and alterations in actin cytoskeleton
                                       p 155 A93-28728
    Early amphibian (anuran) morphogenesis is sensitive to
  novel gravitational fields
                                       p 156 A93-28745
    Rotating-wall vessel coculture of small intestine as a
  prelude to tissue modeling - Aspects of simulated
                                      p 171 A93-28765
  microgravity
    Flow cytometric analysis of lymphocyte surface markers
  following a 1-Gy dose of gamma radiation
                                      p 281
    Molecular cytogenetics: A novel approach for measuring
  chromosome translocations in individuals years after
  exposure to low levels of ionizing radiation
                                        p 5 N93-10974
  IDE92-0180661
    Clinical and immunological response to vaccination with
  parenteral or oral vaccines in two groups of 30 recruits
                                       p 19 N93-11305
    Use of novel adjuvants and delivery systems to improve
  the humoral and cellular immune response to malaria
                                       p 20 N93-11308
  vaccine candidate antigens
   Immunology presentation at the 1990 NASA/NSF
  Antarctica Biomedical Science Working Group
                                       p 81 N93-16806
    Analysis and synthesis of adaptive neural elements and
  assemblies
 [AD-A259954]
                                      p 219 N93-24247
CYTOMETRY
    Early markers of HIV infection and subclinical disease
  progression
                                       p 17 N93-11296
    Measuring the metastatic potential of cancer cells
                                      p 244 N93-25566
    Evaluation of dried storage of platelets for transfusion:
  Physiologic integrity and hemostatic functionality
                                      p 334 N93-29620
 [AD-A263240]
CYTOPLASM
   Separation of rat pituitary secretory granules by ontinuous flow electrophoresis p 329 A93-44933
  continuous flow electrophoresis
                          D
DAMAGE
   Microflora of cabins of manned space objects and the
  problem of biological damage to the structural materials
  used in them
                                     p 262 A93-35237
   Remote surface inspection system --- of large space
                                      p 410 A93-55469
   Postoperative hyperbaric oxygen treatment of peripheral
  nerve damage
 IAD-A2558421
                                       o 52 N93-14084
DAMAGE ASSESSMENT
   Study of the whole-body response to vibration: The effect
 of repeated exposure to the long-term whole-body vibration. II p 9 A93-11286
   The effects of structural failure on injuries sustained in
 the M1 Boeing 737 disaster, January 1989
                                     p 118 A93-25201
   The application of Hybrid 3 dummy to the impact
  assessment of a free-fall lifeboat
                                    p 143 N93-19671
   An assessment of peripheral nerve damage in the rat
 following non-freezing cold exposure: An electrophysiological and histopathological examination
 IAD-A2642931
                                      p 331 N93-30818
DARK MATTER
   Dark matter in the solar system - Hydrogen cyanide
                                      p 110 A93-17987
 polymers
DARKNESS
   Changes in the dark focus of accommodation associated
                                      p 379 A93-49222
  with simulator sickness
DATA ACQUISITION
   A physiological signal acquisition and processing system
  for bed-rest laboratory
                                     p 103 A93-19998
   Methodology issues concerning the accuracy of
 kinematic data collection and analysis using the ariel
  performance analysis system
 INASA-CR-1856891
                                       p 34 N93-12211
   An improved anthropometric test device
                                     p 143 N93-19670
   The application of Hybrid 3 dummy to the impact
                                     p 143 N93-19671
  assessment of a free-fall lifeboat
   Acquisition and production of skilled behavior in dynamic
  decision-making tasks
 [NASA-CR-192361]
                                      p 181 N93-20908
   An on-orbit viewpoint of life sciences research
                                      p 206 N93-22629
    Acquisition of physiological data during G-induced Loss
 of Consciousness (G-LOC)
 IAD-A2644921
                                      p 335 N93-30400
DATA BASE MANAGEMENT SYSTEMS
    Distance and organization in multifunction displays
                                      p 102 A93-19986
```

SUBJECT INDEX DEDUCTION

Format and structure of a database on health and Model-based reasoning applied to cockpit warning Workshop on Aeronautical Decision Making (ADM). environmental impacts of different energy systems for p 147 N93-19778 Volume 1: Executive summary electricity generation [AD-A257016] p 99 N93-16189 Retinal information processing for minimum laser lesion p 12 N93-10222 detection and cumulative damage Cognitive and affective components of mental workload: Treatment of human-computer interface in a decision [AD-A259195] p 171 N93-20563 Understanding the effects of each on human decision making behavior p 99 N93-16783

Development and enhancement of a mode of support system Neural processing of gravity information [DE93-002281] [NASA-CR-192766] p 237 N93-24502 p 209 N93-23233 The effects of display and response codes on DATA BASES performance and decision making under stress in a real Using the stereokinetic effect to convey depth information processing in an identification task life setting IAD-A2595311 p 234 N93-23451 AD-A2577961 Computationally efficient depth-from-motion displays p 123 N93-18363 DOKMA: A document oriented communication model p 102 A93-19987 Modeling the dynamics of mental workload and human for medical applications as a basis of a role system in performance in complex systems An analysis of human performance in simulated the medical field p 347 A93-42173 I AD-A258553 I p 135 N93-19956 partial-gravity environments p 284 N93-28469 Acquisition and production of skilled behavior in dynamic Format and structure of a database on health and An automated processing system for food frequency and decision-making tasks environmental impacts of different energy systems for nutrition knowledge questionnaire p 367 N93-32241 INASA-CR-192361 J n 181 N93-20908 electricity generation DATA REDUCTION Treatment of human-computer interface in a decision [DE92-634160] p 12 N93-10222 Transcutaneous Analyte Measuring Methods (TAMM), Development of the Personnel-based System Evaluation phase 2 IDE93-0022811 n 237 N93-24502 Aid (PER-SEVAL) performance shaping functions i AD-A256327 I p 54 N93-15192 Organizational politics, participation in decision-making, [AD-A252820] p 26 N93-11779 DATA SAMPLING and job satisfaction Meta-analysis of integrity tests: A critical examination Optimal sampling theory and population modelling p 257 N93-25203 IDOT/FAA/AM-92/17 I of validity generalization and moderator variables Application to determination of the influence of the How expert pilots think: Cognitive processes in expert IAD-A2546811 p 27 N93-12225 decision making microgravity environment on drug distribution and ECLSS evolution: Advanced instrumentation interface p 85 A93-17542 IDOT/FAA/RD-93/91 p 288 N93-27103 requirements. Volume 3: Appendix C **DATA STRUCTURES** Specification of adaptive aiding systems [NASA-CR-184367] p 64 N93-12990 p 314 N93-27927 Format and structure of a database on health and IAD-A2630711 Directory of design support methods environmental impacts of different energy systems for Pilot decision aiding for weapon delivery: A novel [AD-A256987] electricity generation [DE92-634160] p 104 N93-16258 approach to fire control cueing using parallel computing p 317 N93-28853 Significance of histological postmortem findings in pilots p 12 N93-10222 killed in military and civil aircraft accidents in Germany DATA SYSTEMS Crucial role of detailed function, task, timeline, link, and p 126 N93-19697 (West): A 25-year-review Dark cycle monitoring of biological specimens on Space human vulnerability analyses in HRA Station Freedom Aircraft accident injuries in the Hellenic Air Force in the IDE93-0019231 p 321 N93-28942 p 126 N93-19698 |SAE PAPER 921393| p 274 A93-41551 **DECISION THEORY** Decision paths in_complex tasks [NASA-CR-192121] Medical evaluation of spatial disorientation mishaps DATA TRANSMISSION Pictorial communication in virtual and p 134 N93-19703 p 132 N93-18359 environments Flight above a virtual world p 145 N93-19766 Theory of signal detection and its application to visual HSBN 0-74840-008-71 n 182 A93-26896 Toxic substances registry system: Index of material target acquisition: A review of the literature safety data sheets [AD-A262920] p 288 N93-28307 [NASA-TM-108582] Melatonin concentrations in the sudden infant death p 172 N93-20998 A decision-theoretic approach to the display of p 203 A93-33030 A longitudinal examination of applicants to the air traffic syndrome information for time-critical decisions: The Vista project control supervisory identification and development Smoking status and body composition, exercise, dietary p 367 N93-32152 intake, and alcohol/caffeine consumption DECOMPRESSION SICKNESS p 23 N93-11893 [DOT/FAA/AM-92/16] AD-A2506481 The influence of prior exercise at anaerobic threshold on decompression sickness p 8 A93-10333 p 257 N93-25213 DEBRIS Proceedings of Workshop 1: The Human Brainmap Database Microbiological analysis of debris from STS-42 IML-1 Time to detection of circulating microbubbles as a risk by direct plating of rinse waters [AD-A2607201 p 258 N93-25654 factor for symptoms of altitude decompression sickness INASA-TM-108375 p 6 N93-12174 p 46 A93-16153 Advanced life support study. Modification 10: ECLSS logistical support analysis for Space Station Freedom DECELERATION Failure of the straight-line DCS boundary when extrapolated to the hypobaric realm p 47 A93-16154
The role of ground level oxygen in the treatment of [NASA-CR-192481] A study of human brain somatosensory evoked potential p 266 N93-25888 Age 60 Project: Consolidated database experiments and its application to man-machine-environment system p 314 N93-27851 engineering - Preliminary exploration of SEP in normal [HS-TR-8025-3C(R2)] altitude chamber decompression sickness DOKMA: A document oriented communication model p 12 A93-13719 p 89 A93-18043 The effect of variable seat back angles on human response to + Gz impact accelerations for medical applications as a basis of a role system in Motor activity of animals under elevated pressure p 75 A93-18290 the medical field p 31 N93-11559 AD-A2506731 response [ETN-93-93799] p 284 N93-28469 Polyphosphoinositide to various DATA COMPRESSION **DECISION MAKING** neurotransmitters after an exposure to a helium-oxygen Keeping the pilot in the loop An optimizing atmosphere at a high pressure p 76 A93-18296 A method for the theoretical calculation of the Operator/system communication p 101 A93-19104 The 'artful' decision maker - A framework model for decision tool Digital mammography, cancer screening: Factors aeronautical decision making p 56 A93-15662 parameters of single-stage decompression with equal Predicting individual differences in complex skill important for image compression probability of safety p 160 A93-26832 p 221 N93-24551 DATA FLOW ANALYSIS acquisition - Dynamics of ability determinants Rationale for a hyperbaric treatment capability at a Lunar p 181 A93-28731 p 213 A93-30286 Engineering and technical support of experiments on Station board the Cosmos-2044 biosatellite p 77 A93-18419 Dynamic multiobjective decision and its application in Ultrasonic location of gas bubbles in the vascular bed DATA INTEGRATION environmental control and life support system of a person working in a space suit p 262 A93-35239 Medical care on the moon p 331 A93-42126 p 230 A93-30439 Interactive and cooperative sensing and control for dvanced teleoperation p 391 A93-49443 advanced teleoperation Compatibility and consistency in display-control systems Variability over time of complement activation induced Multistage integration model for human egomotion Implications for aircraft decision aid design by air bubbles in human and rabbit sera p 230 A93-30454 p 323 A93-42190 perception The role of mental models in team performance in Complement proteins and decompression sickness AIAA PAPER 93-35641 p 406 A93-52664 DATA LINKS p 262 A93-34985 susceptibility complex systems A study of decision making and performance in rejected IAD-A2544481 p 50 N93-12905 A systems analysis to identify human factors issues and equirements for data link p 186 A93-27153 Statistically based decompression tables 8: p 287 A93-41322 Human engineering issues for data link systems [SAE PAPER 921134] Linear-exponential kinetics [SAE ARD 50027] [AD-A257613] p 410 A93-54874 nical aeromedical p 385 A93-52305 p 120 N93-17926 Risk assessment and clinical DATA MANAGEMENT The Proceedings of the Hypobaric Decompression decision-making Human performance assessment methods Sickness Workshop Intelligent sensing and control for advanced [AGARD-AG-308-ADD] IAD-A2576121 p 123 N93-18362 p 133 N93-18868 p 409 A93-54158 teleoperation Statistically based decompression tables. 7: Selection Advanced cockpit-mission and image management Flight leads and crisis decision-making p 144 N93-19760 and treatment of primary air and N2O2 data p 404 A93-55161 [AD-A259090] p 172 N93-20587 Management of avionics data in the cockpit Format and structure of a database on health and Hyperbaric treatment p 360 N93-31454 N93-19777 environmental impacts of different energy systems for DATA PROCESSING DECONDITIONING electricity generation Effects of acute exercise on attenuated vagal baroreflex Comparative test data assessment and simplified math [DE92-634160] p 12 N93-10222 function during bed rest p 48 A93-16160 modelling for Sabatier CO2 reduction subsystem Selective factors affecting rotary wing aviator DECONTAMINATION ISAE PAPER 9212281 p 296 A93-41402 performance with symbology superimposed on night vision A procedure for the frequency analysis of telerobotic Use of sorption technology for treatment of humidity goggles p 392 A93-50513 condensate for potable water [AD-A2549831 p 35 N93-12508 p 303 A93-41474 ISAE PAPER 9213121 Automatic information processing and high performance Defining contamination control skills: Individual differences and mechanisms of Decision making in a dynamic task environment: The requirements for performance improvement in search-detection and effect of time pressure non-human research on Space Station Freedom p 58 N93-14602 |SAE PAPER 921386| p 308 A93-41544 complex tasks Development and enhancement of a model of p 100 N93-17684 DEDUCTION Automatic information processing and high performance performance and decision making under stress in a real The position test: A computer generated process for

life settina

IAD-A2556991

p 132 N93-18273

[AD-A258473]

p 343 N93-31232

acquisition of inductive logic thinking

p 99 N93-16111

DEEP WATER SUBJECT INDEX

DEEP WATER DEPENDENT VARIABLES Pseudomonas screening assay Bacterial sulfate reduction above 100 C in deep-sea Study design for microgravity human physiology INASA-CASE-NPO-17653-1-CUI n 245 N93-25994 nvdrothermal vent sediments DEVELOPING NATIONS p 118 A93-25208 p 80 A93-20672 experiments Communicable diseases: A major burden of morbidity DEPLOYMENT Remote surface inspection system --- of large space latforms p 410 A93-55469 p 18 N93-11300 and mortality Subjective fatigue in A-6, F-14, and F/A-18 aircrews platforms DEW POINT during operations Desert Shield and Storm Effects of space radiation on humoral and cellular Dew point analysis for Space Station Freedom IAD-A259243| p 171 N93-20580 p 296 A93-41401 immunity in rhesus monkeys [AD-A261808] |SAE PAPER 921227| n 246 N93-26259 DIAGNOSIS Anisotropy in an ambiguous kinetic depth effect DEGASSING p 55 A93-14097 Value of frequency domain correlative cardiography Development of membrane gas removal technology for (FCG) to early diagnosis of coronary heart disease DERMATITIS p 10 A93-13705 microgravity liquid flow systems Occupational dermatitis in the aircraft industry - 35 years ISAE PAPÉR 9211621 p 294 A93-41344 p 215 A93-32776 Electroencephalogram epileptiform abnormalities in of progress
DESCENT TRAJECTORIES p 170 A93-28757 candidates for aircrew training p 170 A93-28757 Hypertension and the probability of an incapacitating DEGENERATION Degeneration of cervical intervertebral disks in fighter HUD climb/dive ladder configuration and unusual pilots frequently exposed to high +Gz forces p 185 A93-27129 event over a defined period - Impact of treatment attitude recovery p 185 A93-27129
The effects of head and sensor movement on flight p 215 A93-32777 p 384 A93-52298 An assessment of peripheral nerve damage in the rat Significance of a comparison of results of caloric and profiles during simulated dive bombing following non-freezing p 248 A93-35226 p 185 A93-27131 vestibulometric rotation tests cold exposure: electrophysiological and histopathological examination Long-lasting neuropsychological changes after a single **DESIGN ANALYSIS** IAD-A2642931 p 331 N93-30818 high altitude climb p 278 A93-39713 The optimum design of personal liquid cooling system DEGRADATION p 60 A93-14314 New technology for the analysis of the results of an The effects of wearing protective chemical warfare ultrasound experiment performed in aviation-medicine Industrial design influence on today's flight decks p 279 A93-40774 combat clothing on human performance medical examination p 61 p 35 N93-12491 Case report - Chronic sub-dural hematoma following Visual display aid for orbital maneuvering - Design p 282 A93-41171 DEGREES OF FREEDOM high-speed ejection p 135 A93-23518 considerations and control of a two Phadiatop: A screening test for inhalant allergy Design, construction. The Space Station Remote Manipulator System p 21 N93-11313 degree-of-freedom electric direct-drive human power p 138 A93-25487 amplifier p 65 N93-13486 The Servicing Aid Tool --- teleoperated manipulation In vivo and in vitro diagnosis of allergic respiratory DEHUMIDIFICATION disease during screening procedures in the Italian Navy: Comparative evaluation of a recent quantitative system for space shuttle orbiters p 192 A93-29116 of Operation breadboard Anthropometry for HMD design liquid-sorbent/membrane-contactor system for removing three-dimensional quantitative morphology automatized enzyme immunoassay method to dose carbon dioxide and water vapor from air p 21 N93-11314 p 229 A93-30069 specific laE Allergy screening and follow-up in student pilots of the [SAE PAPER 921321] D 304 A93-41483 An operator interface design for a telerobotic inspection p 21 N93-11316 A novel membrane device for the removal of water vapor Belgian Air Force (BAF) system and water droplets from air Altergic and nonallergic rhinitis in Greek pilots I ÁIAA PAPER 93-1160 I n 231 A93-31034 p 21 N93-11317 SAE PAPER 9213221 p 304 A93-41484 Glovebox design for Space Station Freedom Crew DEHYDRATION Health Care System A study of illness related lost time in transport aircraft Influence of graded dehydration on hyperthermia and [SAE PAPER 9211391 p 292 A93-41326 crewmembers p 132 N93-18298 cardiovascular drift during exercise p 44 A93-14971 [AD-A258193] Design of a Shuttle air and water prefilter for reduced aqueous organic p 397 A93-53291 Hydrothermal dehydration of Stress resistance as a diagnostic category in air traffic gravity operation controller selection compounds [SAE PAPER 921161] p 294 A93-41343 Vascular uptake of rehydration fluids in hypohydrated Conceptual design of ECLSS microgravity test beds |DLR-FB-92-13| p 219 N93-24092 p 294 A93-41346 men at rest and exercise [SAE PAPER 921164] A fiber optic probe for the detection of cataracts [NASA-TM-103942] p 254 N93-25593 p 255 N93-26133 Lunar habitats - Places for people DEHYDROGENATION Use of RNA hybridization in the diagnosis of a case of p 344 A93-41991 Effect of low-frequency vibration on the activity of ulceroglandular tularemia Design guide for the ergonomic aspects of helicopter FOA-B-40422-4.41 n 275 N93-28212 dehydrogenases in neurones of the nucleus vestibu crew seating anterior of rats p 242 A93-35670 Proceedings of a Workshop on Molecular Nuclear p 65 N93-13464 DEMODULATION The environmental control and life-support system for Medicine p 285 N93-28835 I DE93-0108281 Demodulation processes in auditory perception lunar base: What drives its design p 66 N93-13991 Fuzzy neural network methodology applied to medical [AD-A255748] p 54 N93-15053 Human factors design principles for instrument approach p 334 N93-29546 diagnosis DEMOGRAPHY procedure charts. Volume 1: Readability p 104 N93-15968 Fundamental diagnostic hematology: Anemia (second Poststrike air traffic control trainees - Biodemographic Preliminary design of a radiator shading device for a edition) predictors of success in selection and screening p 56 A93-15664 [PB93-188662] p 338 N93-31140 lunar outpost [NASA-CR-192016] Fundamental diagnostic hematology: The bleeding and p 139 N93-18019 Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, clotting disorders (second edition) Helmet-mounted area-of-interest display p 338 N93-31158 p 139 N93-18029 LDB03-1886701 [AD-A258275] 1946-1988 DIAPHRAGM (ANATOMY) reflecting master Design requirements for force p 265 N93-25628 IAD-A2608691 An analysis of the respiratory muscle fatigue under controllers p 139 N93-18035 DEOXYRIBONUCLEIC ACID Space Station ECLSS integration analysis resistive loading when breathing gas mixtures containing Effect of dexamethasone on proliferating osteoblasts p 195 N93-22002 p 76 A93-18299 INASA-CR-1924701 different amounts of oxygen Inhibition of prostaglandin E2 synthesis, DNA synthesis, DIASTOLIC PRESSURE Optimal design of composite hip implants using NASA and alterations in actin cytoskeleton technology p 174 N93-22188 Relationship between alcohol drinking habit and blood p 155 A93-28728 pressure changes during the period of 25 years on JASDI Design of a portable powered seat lift Responses of Bacillus subtitis spores to space p 195 N93-22190 p 333 A93-45321 aged pilots environment - Results from experiments in space Human factors engineering: A key element of DIETS p 268 A93-36556 Effects of vitamin D and phosphorus level in diet on instrumentation and control system design Some biochemical properties of an acyclic oligonucleotide analogue - A plausible ancestor of the of an acyclic p 264 N93-25415 bone, skeletal muscle and kidney in suspended rats p 77 A93-19994 Advanced life support study. Modification 10: ECLSS p 269 A93-36560 A balanced carbohydrate:protein diet in the management logistical support analysis for Space Station Freedom In vitro selection of optimal DNA substrates for T4 RNA [NASA-CR-192481] p 266 N93-25888 of Parkinson's disease p 153 A93-27918 Facilitation of levodopa-induced dyskinesias by dietary p 329 A93-44939 ligase Ergonomic development of digital map displays p 320 N93-28866 Unexpected substrate specificity of T4 DNA ligase carbohydrates p 203 A93-33029 Smoking status and body composition, exercise, dietary revealed by in vitro selection p 397 A93-52878 DESYNCHRONIZATION (BIOLOGY) Human biorhythms following interregional travel (with intake, and alcohol/caffeine consumption DNA topoisomerase V is a relative of eukaryotic p 23 N93-11893 reference to Novosibirsk-Vladivostok flights) IAD-A2506481 topoisomerase I from a hyperthermophilic prokaryote p 247 A93-35214 p 399 A93-55580 Crop growth and associated life support for a lunar p 67 N93-13994 Radiation damage to DNA The effects of history and predictive information on the [DE92-015760] p 5 N93-10834 Muscle glycogen, fiber type, aerobic fitness, and ability of the transport aircraft pilot to predict an alert AFRRI reports anaerobic capacity of West Coast US Navy Sea-Air-Land p 365 A93-46810 ersonnel (SEALs) LAD-A254581 L p 49 N93-12649 Biochemically active layers for selective material p 121 N93-18209 LAD-A258364 L Measuring the metastatic potential of cancer cells detection sensors Field trial of caffeine on physical performance at altitude: p 244 N93-25566 [MBB-Z-0440-92-PUB] p 158 N93-20959 An attempt to overcome the challenge Development of resonance ionization spectroscopy for The challenge of biodetection for screening persons AD-A2642601 p 337 N93-30894 genome mapping and DNA sequencing using stable p 159 N93-21931 carrying explosives An automated processing system for food frequency and isotopes as DNA labels Explosives search dogs p 159 N93-21933 p 367 N93-32241 nutrition knowledge questionnaire IDE93-0078151 p 246 N93-26587 Sensory sensitivities and discriminations and their roles Nutritional assessment of United States tactical air Comparative mutagenesis of human cells in vivo and in aviation command pilots p 367 N93-32242 p 224 N93-23479 [AD-A259742] p 276 N93-28651 [DE93-012269] Protein requirements in hypoxia or hypokinesia Automated system for early breast cancer detection in p 368 N93-32244 p 253 N93-25568 Mechanisms of microwave induced damage in biologic mammograms Automatic detection of seizures with applications Correlation of life-style and dietary concomitants of

p 254 N93-25592

Greek pilots with serum analytes

p 369 N93-32256

IAD-A2644151

p 358 N93-32035

DISSOLVED GASES

SUBJECT INDEX The lifestyle and dietary consumption patterns of United DISORDERS Performance under dichoptic versus binocular viewing States Air Force aviators within air training command at New techniques for positron emission tomography in conditions - Effects of attention and task requirements Randolph Air Force Base, Texas p 369 N93-32257 the study of human neurological disorders p 287 p 23 N93-11873 Objective improvements obtained by control of diet and IDE92-0153531 The effect of geometric field of view and tunnel design physical training in Spanish Air Force fighter pilots Prevention of cumulative trauma disorders for perspective flight-path displays p 369 N93-32258 p 338 N93-31138 ISAE PAPER 921131 p 291 A93-41319 DISORIENTATION The influence of dietary counseling and cardiac High level organizing principles for display of systems disorientation catheterization on lipid profiles in American military Spatial and dysfunction fault information for commercial flight crews orientation/equilibrium reflexes - Aeromedical evaluation p 388 A93-52187 aviators p 369 N93-32259 p 8 A93-10336 The effects of an antijet lag diet and considerations p 370 N93-32263 A comparative evaluation of three take-off performance Epidemiology of United States Air Force spatial DIFFERENCE EQUATIONS monitor display types disorientation accidents: 1990-1991 p 133 N93-19679 [AIAA PAPER 93-3608] Chiral symmetry breaking in nonlinear autocatalytic p 406 A93-52669 Disorientation and flight safety: A survey of UK Army p 133 N93-19680 reactions and the effect of external noise Depth-viewing-volume increase by collimation of stereo aircrew p 269 A93-36564 p 407 A93-52915 3-D displays Medical evaluation of spatial disorientation mishaps DIFFERENTIAL AMPLIFIERS Stereoscopic displays and applications III; Proceedings p 134 N93-19703 Investigation into the common mode rejection ratio of of the Meeting, San Jose, CA, Feb. 12, 13, 1992 DISPLAY DEVICES the physiological signal conditioner circuit I SPIE-16691 p 408 A93-53119 Design of a display system for a human pilot's p 245 N93-26073 A low cost helmet-mounted camera/display system for p 27 A93-11201 supervisory tasks DIFFERENTIATION (BIOLOGY) field testing teleoperator tasks p 408 A93-53122 Advanced displays for military operations The earliest fossil evidence for sexual dimorphism in | AIAA PAPER 92-4243 | User evaluation of a stereoscopic display for space p 28 A93-13350 primates p 152 A93-27775 Human factors on advanced flight decks: Proceedings training applications p 408 A93-53123 Computer-aided mechanogenesis of skeletal muscle of the Conference, London, United Kingdom, Mar. 14, Virtual landings --- developing Enhanced Vision Systems organs from single cells in vitro p 205 A93-33045 1991 p 410 A93-54868 Effects of maglev-spectrum magnetic field exposure on HSBN 0-903409-85-21 p 29 A93-13408 Telemanipulation experiment using predictive display T-lymphoblastoid human cell growth and Airline training for advanced technology cockpits p 411 A93-56256 p 24 A93-13411 differentiation KC-135 crew reduction feasibility demonstration IDE92-0411341 p 29 A93-13413 p 96 N93-16552 Keeping the pilot in the loop simulation study. Volume 3: Test and evaluation Vision modelling applications for display optimisation DIFFUSION [AD-A253931] p 30 N93-10713 p 29 A93-13414 Perfusion of the visual cortex during pressure breathing Advanced technology for portable Advanced civil airliner cockpit research at RAE at different high-G stress profiles visualization p 401 A93-55167 p 29 A93-13416 Bedford IAD-A2538081 p 32 N93-11783 DIGESTING Methodology for ergonomic tests of the information Direct manipulation and intermittent automation in Comparative mutagenesis of human cells in vivo and display on monitor indicators p 101 A93-18530 in vitro advanced cockpits p 32 N93-11784 Graphical displays - Implications for divided attention, [AD-A253814] IDE93-0122691 p 276 N93-28651 Advanced workstation: An integrated focused attention, and problem solving satellite DIGESTIVE SYSTEM p 102 A93-19984 workstation environment for operational support of satellite Effects of gravity on gastric emptying, intestinal transit, Choosing specifiers - An evaluation of the basic tasks system planning and analysis p 33 N93-11941 and drug absorption p 85 A93-17543 p 102 A93-19985 model of graphical perception A spurious pop-out in visual search Formation of the hypokinetic syndrome in the digestive Distance and organization in multifunction displays p 57 N93-14267 [AD-A256548] system under conditions of weightlessness p 102 A93 19986 High-resolution contrast control on a video display: p 119 A93-25600 Using the stereokinetic effect to convey depth -Method and calibration DIGITAL SIMULATION Computationally efficient depth-from-motion displays p 60 N93-15400 JAD-A2565521 The dynamic mathematical model and digital simulation p 102 A93-19987 Spatial judgments with monoscopic and stereoscopic Human factors design principles for instrument approach of the environmental control system p 61 A93-14319 procedure charts. Volume 1: Readability **DIGITAL TECHNIQUES** presentation of perspective displays p 102 A93-19988 IAD-A2572341 p 104 N93-15968 Human vision, visual processing, and digital display II; Visibility of transmissive liquid crystal displays under Helmet-mounted area-of-interest display p 103 A93-19990 Proceedings of the Meeting, San Jose, CA, Feb. 27-Mar. dynamic lighting conditions p 139 N93-18029 [AD-A258275] Visual display aid for orbital maneuvering - Design posiderations p 135 A93-23518 The effects of iconic presentation on individuals [SPIE-1453] p 137 A93-25363 considerations {AD-A258785} p 133 N93-18949 Wide-bandwidth high-resolution Visual display aid for orbital maneuvering - Experimental search Effect of contrast on human speed perception extraterrestrial intelligence evaluation p 136 A93-23519 [NASA-TM-103898] p 141 N93-19104 [NASA-CR-191618] Incorporating display limitations in a model-based p 110 N93-15825 Engineering the visibility of small features on electronic analysis of flight simulator fidelity [AIAA PAPER 93-0859] p 144 N93-19758 DIMERS flight displays p 137 A93-24923 Nonlinear optical properties of porphyrin and chlorophyll Multimodal dialog system for future cockpits Human vision, visual processing, and digital display II; p 146 N93-19773 dimers studied by degenerated four wave mixing Proceedings of the Meeting, San Jose, CA, Feb. 27-Mar. The active-matrix LC head-down display (AM-LCD): p 210 N93-24028 1. 1991 Operational experience and growth potential **DIPHTHERIA** [SPIE-1453] p 137 A93-25363 p 148 N93-19782 Absence of protective immunity against diphtheria is Pictorial communication in virtual and real Comparative evaluation of a monocular head mounted large proportion of young adults p 18 N93-11302 environments display device versus a flat screen display device in Immunization of personnel traveling to a destination in p 182 A93-26896 IISBN 0-74840-008-71 presenting aircraft maintenance technical data tropical countries: French position p 19 N93-11304 AD-A2596841 AD-A259684) p 234 N93-23660 Combat Automation for Airborne Weapon Systems: Virtual display aids for teleoperation **DIPOLE MOMENTS** p 183 A93-27029 Adaptive filters for monitoring localized brain activity from surface potential time series Man/Machine Interface Trends and Technologies Display format and highlight validity effects on search p 317 N93-28850 (AGARD-CP-5201 performance using complex visual displays [DE93-003795] p 217 N93-22774 Pilot intent and error recognition as part of a knowledge p 187 A93-27160 DIRECTORIES p 318 N93-28855 based cockpit assistant Exocentric judgements in real environments and Directory of design support methods The design and development of the new RAF standard p 189 A93-27190 stereoscopic displays [AD-A256987] p 104 N93-16258 p 318 N93-28856 Human factors issues in the use of night vision DISABILITIES Symbology for head up and head down applications for p 189 A93-27193 Compliant walker highly agile fighter aircraft: To improve spatial awareness. INASA-CASE-GSC-13348-21 Visual augmentation and scene detail effects in flight p 53 N93-14708 trajectory control, and unusual attitude recovery, part 1 p 180 A93-27454 training DISCRIMINATION p 318 N93-28857 USAF/USN fixed wing night vision - The mission Sensory sensitivities and discriminations and their roles Head-steered sensor flight test results p 227 A93-30055 in aviation p 318 N93-28859 [AD-A259742] The realities of using visually coupled systems for training p 224 N93-23479 Oculo-motor responses and virtual image displays p 228 A93-30063 p 319 N93-28862 Skin care in the space environment Visual illusions and other effects with night vision Ergonomic development of digital map displays p 170 A93-28756 p 230 A93-30072 p 320 N93-28866 devices The Proceedings of the Hypobaric Decompression Head mounted displays for virtual reality Compatibility and consistency in display-control systems p 322 N93-29340 Sickness Workshop [AD-A263498] Implications for aircraft decision aid design [AD-A257612] p 230 A93-30454 p 123 N93-18362 A tutorial on exit pupils and eye rotation with virtual image Wound healing and connective tissue metabolism: The optical displays Factors that affect depth perception in stereoscopic role of hyperbaric oxygen therapy I AD-A262399 I p 333 N93-29400 displays p 230 A93-30455 (AD-A262483) p 285 N93-28759 The effects of superimposing symbology on a simulated Human stereopsis p 223 A93-30456 Proceedings of a Workshop on Molecular Nuclear night vision goggle display Proposed evaluation framework for assessing operator Medicine [AD-A263458] p 354 N93-30590 performance with multisensor displays p 285 N93-28835 DISRUPTING p 232 A93-33444 Gene transcription and electromagnetic fields Intracellular targeting of the Yersinia YopE cytotoxin in IDE93-0108541 A teleoperation training simulator with visual and p 276 N93-28848 mammalian cells induces actin microfilament disruption [FOA-B-40420-4.4] The AFOSR Workshop on the Future of EEG and kinesthetic force virtual reality p 233 A93-33448 p 275 N93-27989 An exploratory study of plan-view terrain displays for MEG DISSOLVED GASES

air carrier operations

displaying radio frequencies

p 335 N93-30160

p 370 N93-32262

Survey of smoking habits in the Spanish Air Force

p 289 A93-39573

p 289 A93-39574

Instrument-approach-plate design considerations for

IAD-A2643381

p 300 A93-41437

Measurement of free and dissolved gas content of water

amples on Space Station Freedom

|SAE PAPER 921267|

		?
DISTILLATION	Procedures for the diagnostic dose resistance test kits	Effects of terfenadine and diphenhydramine on brain
Gray water recycling with a unique vapor compression	for mosquitoes, body lice, and beetle pests of stored	activity and performance in a UH-60 flight simulator
distillation (VCD) design	products	[AD-A258012] p 119 N93-17817
ISAE PAPER 9213181 p 304 A93-41480	[AD-A255224] p 51 N93-13941	Survey of aviation medical examiners: Information and
Water reclamation technology development for future	Nifedipine for treatment of high altitude pulmonary	attitudes about the pre-employment and pre-appointment
long range missions	edema	drug testing program
[SAE PAPER 921351] p 306 A93-41510	[AD-A256959] p 95 N93-16187	[DOT/FAA/AM-92/15] p 218 N93-24088
Experimental and theoretical study on membrane	A linear, time-varying simulation of the respiratory tract	Immunoconjugates: Magic bullets for cancer therapy?
distillation using thermopervaporation	system	p 253 N93-25567
ISAE PAPER 921397 p 309 A93-41554	[DE93-004515] p 218 N93-24009	Analysis of neural systems involved in modulation of
Technology development for lunar base water	The chronic effects of iP-8 jet fuel exposure on the	memory storage
recycling p 67 N93-13999	lungs	[AD-A262418] p 283 N93-27654
DISTILLATION EQUIPMENT	[AD-A264162] p 334 N93-30153	Pharmacokinetics and Pharmacodynamics in Space
An update on the readiness of vapor compression	DOSIMETERS	[NASA-CP-10048] p 333 N93-29502
distillation for spacecraft wastewater processing	Radiation dose measurement and biostack experiment	
[SAE PAPER 921114] p 290 A93-41307		DUMMIES
DISTORTION	in biocabin on board satellite p 327 A93-44845	Hybrid 2 and hybrid 3 dummy neck properties for
Evaluation of lens distortion errors in video-based motion	Radiation physics, biophysics, and radiation biology	computer modeling
analysis	[DE92-013673] p 6 N93-12266	[AD-A255544] p 66 N93-13874
[NASA-TP-3266] p 258 N93-25736	The development of an automated cell culture system	Design/development of an enhanced biodynamic
DISTRIBUTED PARAMETER SYSTEMS	for use in space life science research	manikin p 142 N93-19667
Distributed environmental control p 32 N93-11924	p 158 N93-21085	Improving manikin biofidelity p 142 N93-19668
DIURESIS	Measuring hearing protection device performance using	The design and use of automotive crash test dummies
Diuresis and natriuresis following isotonic saline infusion	the metrosonics db-3100 sound level analyzer	p 142 N93-19669
in healthy young volunteers before, during, and after	(dosimeter)	The application of Hybrid 3 dummy to the impact
HDT p 163 A93-28688	[AD-A260852] p 265 N93-25787	assessment of a free-fall lifeboat p 143 N93-19671
Effect of hemorrhage on cardiac output, vasopressin,	DOWN-CONVERTERS	DUST COLLECTORS
aldosterone, and diuresis during immersion in men	Wide-bandwidth high-resolution search for	
[NASA-TM-103949] p 6 N93-12014	extraterrestrial intelligence	Dust protection for environmental control and life support
DIURETICS	[NASA-CR-191618] p 110 N93-15825	systems in the lunar environment p 315 N93-27979
The identification and quantitation of triamterene in blood	Wide-bandwidth high-resolution search for	DYNAMIC CHARACTERISTICS
and urine from a fatal aircraft accident	extraterrestrial intelligence	Dynamic characteristic of changes of oxygen saturation
[AD-A254550] p 49 N93-12612	[NASA-CR-191807] p 110 N93-16709	of blood hemoglobin under conditions of acute hypoxia
DIURNAL VARIATIONS	Wide-bandwidth high-resolution search for	in human body p 91 A93-19993
Research on sleep, circadian rhythms and aging -	extraterrestrial intelligence	Hybrid 2 and hybrid 3 dummy neck properties for
Applications to manned spaceflight p 94 A93-20658	NASA-CR-193137 p 322 N93-28895	computer modeling
Sleep and circadian rhythms p 94 A93-20659	DRILLING	[AD-A255544] p 66 N93-13874
Diurnal rhythmicity of human orthostatic stability	The design of mechanically compatible fasteners for	DYNAMIC LOADS
p 250 A93-35253	human mandible reconstruction p 253 N93-25569	Sudden loading and fatigue effects on the human
Stimulation of lettuce productivity by manipulation of	DRINKING	spine
diurnal temperature and light p 327 A93-44879	Vascular uptake of rehydration fluids in hypohydrated	[PB93-167526] p 286 N93-29199
Effects of early bright, late bright and dim illumination		DYNAMIC MODELS
upon circadian neuroendocrine, electrophysiological and	men at rest and exercise [NASA-TM-103942] p 255 N93-26133	Dynamic analysis to evaluate viscoelastic passive
behavioral responses		damping augmentation for the Space Shuttle Remote
[AD-A254129] p 13 N93-10661	DROP TOWERS Short-term microgravity to isolate graviperception in	Manipulator System p 28 A93-12222
Neurochemical control of circadian rhythms		· · · · · · · · · · · · · · · · · · ·
[AD-A255054] p 50 N93-13116	cells p 111 A93-21901	The dynamic mathematical model and digital simulation
Effects of 60-Hz electric and magnetic fields on operant	DROSOPHILA	of the environmental control system p 61 A93-14319
and social behavior and on neuroendoctrine system of	Results of experiments on the exploration of genetic	EVA Glove Research Team
nonhuman primates	effect of rocket flight factors with Drosophila	[NASA-CR-193014] p 313 N93-27847
DE93-007677 p 207 N93-22913	melanogaster p 1 A93-11691	DYNAMIC PROGRAMMING
Study of SCN neurochemistry using in vivo microdialysis	DRUGS	Dynamic multiobjective decision and its application in
	Drug effects on orthostatic intolerance induced by	environmental control and life support system
in the conscious brain: Correlation with circadian activity rhythms	bedrest p 86 A93-17544	p 230 A93-30439
AD-A259803 p 217 N93-23459	An individual differences approach to fitness-for-duty	DYNAMIC RESPONSE
DIVING (UNDERWATER)	assessment p 178 A93-27178	A study of biological effects and characteristics of
Subjective and behavioral effects associated with	A balanced carbohydrate:protein diet in the management	dynamic responses of organism on landing impact
	of Parkinson's disease p 153 A93-27918	p 10 A93-13533
	Rated performance, cardiovascular and quantitative	Investigation of nonlinear dynamic responses to random
Failure of the straight-line DCS boundary when	EEG parameters during simulated instrument flight under	vibration in dogs p 4 A93-13722
extrapolated to the hypobaric realm p 47 A93-16154 T wave changes in humans and dogs during	the effect of terfenadine p 165 A93-28708	
experimental dives p 92 A93-20026	Effect of dexamethasone on proliferating osteoblasts -	Pesponse characteristics of the human torsional vestibuloocular reflex p 215 A93-32774
Vestibular problems in diving and in space	Inhibition of prostaglandin E2 synthesis, DNA synthesis,	, -
p 169 A93-28747	and alterations in actin cytoskeleton	Evaluation and estimation of handling qualities via
	p 155 A93-28728	statistical modeling of pilot response data
Statistically based decompression tables 8: Linear-exponential kinetics	Aminohydroxybutane bisphosphonate and clenbuterol	[AD-A255324] p 69 N93-14548
[AD-A257613] p 120 N93-17926	prevent bone changes and retard muscle atrophy	Improving manikin biofidelity p 142 N93-19668
Statistically based decompression tables. 7: Selection	respectively in tail-suspended rats p 271 A93-39703 Effects of two kinds of Chinese herb medicine on rabbit's	A new instrumentation system for measuring the
and treatment of primary air and N2O2 data	ear microcirculation under simulated weightlessness	dynamic response of the human head/neck during impact
[AD-A259090] p 172 N93-20587	p 327 A93-44842	acceleration p 143 N93-19672
Evoked brain potentials as indicators of a central nervous	Protective effects of Rhodiola crenulata on rats under	DYNAMIC STRUCTURAL ANALYSIS
impairment in a simulated saturation dive to 560 m		
[DLR-FB-92-14] p 219 N93-24093	antiorthostatic position and professional athletes	A preliminary structural analysis of space-based inflatable tubular frame structures p 313 N93-27849
DOGS	p 327 A93-44843	·
Explosives search dogs p 159 N93-21933	Recent lessons on the safety and effectiveness of	Power assist EVA glove development
DOPA	malaria chemoprophylaxis in a non-immune population	p 314 N93-27850
Effect of DL-DOPA, L-5-HTP and pentobarbital sodium	p 19 N93-11307	DYNAMIC TESTS
	Future approaches to vaccine development single-dose	Design guide for the ergonomic aspects of helicopter
on brain encephalofluctuographs in rats p 2 A93-13530	vaccines using controlled-release delivery systems	crew seating
Facilitation of levodopa-induced dyskinesias by dietary	p 20 N93-11310	[ISVR-TR-209] p 65 N93-13464
carbohydrates p 203 A93-33029	Epidemiologic view of allergic diseases in North America:	Hybrid 2 and hybrid 3 dummy neck properties for
Tyrosine - Effects on catecholamine release	Implications for aerospace medicine p 20 N93-11311	computer modeling
	The screening of inhalant allergic diseases in the	[AD-A255544] p 66 N93-13874
p 204 A93-33038	selection of candidates for aircraft piloting	
Renal hemodynamics, tubular function, and response	p 21 N93-11312	Occupant simulation as an aspect of flight safety
to low-dose dopamine during acute hypoxia in humans	The OMPAT level 1 Neurophysiological Performance	research p 142 N93-19665
p 332 A93-44180 DOPPLER EFFECT	Assessment Battery: NPPAB	DYNAMICAL SYSTEMS
	[AD-A254840] p 27 N93-12432	Self-programming of matter and the evolution of
Cerebral blood flow velocities by transcranial Doppler	The identification and quantitation of triamterene in blood	proto-biological organizations
during parabolic flight p 84 A93-17533	and urine from a fatal aircraft accident	[DE92-015244] p 5 N93-10628
Acquisition of physiological data during G-induced Loss	[AD-A254550] p 49 N93-12612	DYNAMOMETERS
of Consciousness (G-LOC)	Enhancement of drug detection and identification by use	Astronaut candidate strength measurement using the
[AD-A264492] p 335 N93-30400	of various derivatizing reagents on GC-FTIR analysis	Cybex 2 and the LIDO Multi-Joint 2 dynamometers
DOSAGE	[AD-A255582] p 95 N93-16041	[NASA-CR-185679] p 34 N93-12195
Future approaches to vaccine development single-dose	Nifedipine for treatment of high altitude pulmonary	Prevention of cumulative trauma disorders

Prevention of cumulative trauma disorders | PB93-188332 | p 338 N93-31138

edema | AD-A256959 |

p 95 N93-16187

Future approaches to vaccine development single-dose vaccines using controlled-release delivery systems p 20 N93-11310

ELECTRIC FIELDS

SUBJECT INDEX E **EAR** The influence of military low-altitude flight noise on the inner ear of the guinea pig. I - Hearing threshold measurements p 377 A93-49555 Micromotional studies of utricular and canal afferents [NASA-CR-192703] p 207 N93-22800 EAR PROTECTORS Measuring hearing protection device performance using the metrosonics db-3100 sound level analyzer (dosimeter) p 265 N93-25787 IAD-A2608521 Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs p 350 N93-29406 [AD-A263011] EARDRUMS Barotrauma in Boeing 737 cabin crew p 278 A93-39706 **EARPHONES** Headphone localization of speech stimuli p 176 A93-27143 Headphone localization of speech p 394 A93-52507 EARTH (PLANET) Comets and the formation of biochemical compounds on the primitive earth - A review p 109 A93-17977 The fate or organic matter during planetary accretion -Preliminary studies of the organic chemistry of experimentally shocked Murchison meteorite p 110 A93-17984 EARTH ENVIRONMENT K.E. Tsiolkovsky and biomedical problems connected with space exploration; Lectures Devoted to K.E. Tsiotkovsky's Ideas, 25th, Kaluga, Russia, Sept. 11-14, 1990, Transactions 990, Transactions p 90 A93-18406 K.E. Tsigikovsky on the problem of human survival in extreme environments (On the earth and in space) p 77 A93-18407 Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture [SAE PAPER 921193] p 295 A93-41371 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-024] p 40 N93-13033 EARTH ORBITAL ENVIRONMENTS Visual display aid for orbital maneuvering - Design onsiderations p 135 A93-23518 considerations Visual display aid for orbital maneuvering - Experimental evaluation p 136 A93-23519 Task-analytic evaluations of Space Station Freedom p 187 A93-27157 softgoods structures for spacesuit Enhanced micrometeoroid/debris protective systems p 299 A93-41428 [SAE PAPER 921258] LIAC - A closed ecosystem research facility --- Life In p 347 A93-42129 Space Station Freedom payload operations in the 21st p 350 A93-45436 century **EARTH ORBITS** SHARC: Space Habitat, Assembly and Repair Center [NASA-CR-192031] p 140 N93-18153 United States Army space experiment 601 p 260 N93-26353 [AD-A261460] **EARTH SURFACE** Liquid water and the origin of life p 268 A93-36552 The violent environment of the origin of life - Progress and uncertainties p 412 A93-53292 FATING Effect of food intake on skin vasomotor responses to p 379 A93-49180 head-up tilt in humans

Nutrition and hydration status of aircrew members consuming the food packet, survival, general purpose, improved during a simulated survival scenario p 128 N93-20384 (AD-A258744) **ECHOCARDIOGRAPHY** Echocardiographic evaluation of the cardiovascular

effects of short-duration spaceflight p 87 A93-17551 ECOLOGY

Biofilm ecology of bioluminescent bacteria p 42 N93-14532 (AD-A2552821 Mathematics and biology: The interface, challenges and

o 82 N93-17359 IDE92-0412071 Planetary Biology and Microbial Ecology: Molecular Ecology and the Global Nitrogen cycle n 269 N93-26157

INASA-CR-44971 ECOSYSTEMS

Effects of possible pollution sources of the atmosphere of a closed ecosystem on the growth of test microorganisms p 101 A93-18418 Relevance of antarctic microbial ecosystems to exobiology p 355 A93-44877

Scaling issues for biodiversity protection [DE92-016689] p 6 N93-12315 Scenarios for optimizing potato productivity in a lunar CELSS p 67 N93-13997 The production and use of aeroponically grown inocula of VAM fungi in the native plant nursery p 43 N93-15208 Life support and self-sufficiency in space communities n 105 N93-16866 Closed Ecological Life Support Systems (CELSS) Test p 233 N93-22628 CEBAS-Aquarack: An artificial aquatic animal plant

ecosystem as a tool for basic research in the Columbus Space Station p 210 N93-24401 Ecosystems on Earth and in space (the possible utilization of artificial ecosystems for space life support p 236 N93-24406 JPRS report: Science and technology. Central Eurasia:

Life sciences JPRS-ULS-92-020 | p 244 N93-25406

EDEMA High-altitude pulmonary edema with pulmonary thromboembolism p 278 A93-39709 Endotoxin priming followed by high-altitude causes pulmonary edema in rats p 323 A93-42186 Effects of acute hypoxia on intracranial dynamics in unanesthetized goats p 326 A93-44177 Nifedipine for treatment of high altitude pulmonary edema

[AD-A256959] p 95 N93-16187 Neuropsychological components of object identification AD-A261449 J p 259 N93-26347 EDUCATION Ground based simulation in test and evaluation

education [AIAA PAPER 92-4066] p 24 A93-11252 Training for avionics evaluation 1 AIAA PAPER 92-4068 I p 24 A93-11254

C.R.M. training for the advanced flight deck p 24 A93-13410 Interdisciplinary research and training program in the plant sciences

Questioning mechanisms during complex learning AD-A247382 p 26 N93-11415 IAD-A247382] Introduction to training decisions modeling technologies: The training decisions system

[AD-A249862] p 27 N93-12252 Suited for spacewalking: A teacher's guide with activities p 65 N93-13692 INASA-EP-2791

A psychometrically sound cognitive diagnostic model: Effect of remediation as empirical validity p 52 N93-14109 Body composition and physical performance

p 69 N93-14161 [AD-A255627] A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255553] p 53 N93-14556

Training, muscle fatigue and stress fractures ND-A255277 | p 54 N93-15006 Development of a prototype interactive learning system IAD-A2552771 using multi-media technology for mission independent training program n 100 N93-17310

Automatic information processing and high performance skills: Individual differences and mechanisms of performance improvement in search-detection and

p 100 N93-17684 IAD-A2577111 The efficacy of biographical inventory data in predicting early attrition in naval aviation officer candidate training [AD-A258025] p 131 N93-17919 The US Navy Healthy Back Program: Effect on back

knowledge among recruits [AD-A258368] p 121 N93-18210 Night vision google training: Development and production of six video programs

AD-A2585291 p 148 N93-20050 Prologue to Action. Life Sciences Education and Science

Literacy [PB93-107514] p 159 N93-21230 Instructions and advance training measures for the

improvement of human reliability [MBB-FE-313-S-PUB-0500] p 181 N93-21402 Requirements for an automated human factors, manpower, personnel, and training (HMPT) planning tool

[AD-A258531] p 195 N93-21753 Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme

p 226 N93-24382 The adult literacy evaluator: An intelligent computer-aided training system for diagnosing adult p 258 N93-26082 illiterates

Contribution of personality to the prediction of success in initial air traffic control specialist training

p 259 N93-26138 [DOT/FAA/AM-93/4] Spontaneous discovery and use of categorical structure

[AD-A261658] p 260 N93-26364 A preliminary empirical evaluation of virtual reality as an instructional medium for visual-spatial tasks

p 367 N93-32151

EFFERENT NERVOUS SYSTEMS

Evaluation of finger motor reaction in flyer when handling p 29 A93-13539 throttle and stick K.E. Tsiolkovsky on individual time perception and some characteristics of intuitive perception of the properties of

time at different levels of motor activity and health p 98 A93-18413 The central nervous connections involved in motion p 399 A93-55931

induced emesis Physiological analyses of the afferents controlling brain neurochemical systems

p 14 N93-11146 [AD-A253185]

EFFLUENTS

Anaerobic treatment of organic wastes from Controlled Ecological Life Support Systems p 301 A93-41442 ISAE PAPER 9212721

Metabolic response of environmentally isolated microorganisms to industrial effluents; Use of a newly described cell culture assay p 245 N93-26066

Early amphibian (anuran) morphogenesis is sensitive to ovel gravitational fields p 156 A93-28745 novel gravitational fields Altering the position of the first horizontal cleavage furrow of the amphibian (Xenopus) egg reduces embryonic p 272 A93-39717

FJECTION

An epidemiological study in SAF's pilots ejections p 143 N93-19699

EJECTION INJURIES

Fractures of the vertebral column after ejection p 46 A93-15575 Case report - Chronic sub-dural hematoma following

high-speed ejection p 282 A93-41171 EJECTION SEATS

Windblast tolerance of human thorax and abdomen p 91 A93-19992

Investigation on requirements for ejection acceleration p 332 A93-44847 measuring system

The limits of human impact acceleration tolerance p 400 A93-52692 [AIAA PAPER 93-3572] The effect of variable seat back angles on human response to +Gz impact accelerations

[AD-A250673] p 31 N93-11559 Improving manikin biofidelity p 142 N93-19668 An epidemiological study in SAF's pilots ejections

p 143 N93-19699 **ELASTIC PROPERTIES**

Power assist EVA glove development

p 299 A93-41425 SAE PAPER 9212551 Effect of cytoskeletal reagents on stretch activated ion I AD-A261089 I

p 245 N93-25764 Power assist EVA glove development

p 314 N93-27850

ELBOW (ANATOMY)

Prosthetic elbow joint [NASA-CASE-MFS-28707-1] p 354 N93-30566 ELECTRIC CONNECTORS

Quick-disconnect harness system for helmet-mounted **ELECTRIC CONTACTS**

Directory of design support methods AD-A2569871 p 104 N93-16258

ELECTRIC CURRENT

Kinetic studies of interfacial photocurrents in platinized chloroplasts

IDE93-0023441 p 211 N93-25104 FLECTRIC FIELDS

Investigation of effects of 60-Hz electric and magnetic fields on operant and social behavior and on the neuroendocrine system of nonhuman primates, part 2 p 41 N93-13503 |DE92-040153| Investigation of effects of 60-Hz electric and magnetic

fields on operant and social behavior and on the neuroendocrine system of nonhuman primates, part 1 IDE92-0401521 p 41 N93-13520

Investigation of effects of 60-Hz electric and magnetic fields on operant and social behavior and on the neuroendocrine system of nonhuman primates: Neuroendocrine portion of Experiment 4

p 95 N93-16166 I DE92-0409551 Effects of maglev-spectrum magnetic field exposure on CEM T-lymphoblastoid human cell growth and differentiation

| DE92-041134 | p 96 N93-16552 **ELECTRIC GENERATORS** SUBJECT INDEX

Contribution of the analysis of ocular activity

ELECTROMAGNETIC PULSES

Health effects of low-frequency electric and magnetic

fields

(complementary to the electroencephalographic analysis) Behavioral effects of high peak power microwave pulses: |DE93-005675| p 127 N93-19838 to the detection of low vigilance in instances of piloting Head exposure at 1.3 GHz Effects of 60-Hz electric and magnetic fields on operant JAD-A2581361 p 120 N93-17985 a vehicle p 127 N93-19708 and social behavior and on neuroendoctrine system of ELECTROMAGNETIC RADIATION Adaptive filters for monitoring localized brain activity from Joint HVAC transmission EMF environmental study nonhuman primates surface potential time series p 43 N93-15211 p 207 N93-22913 p 217 N93-22774 IDE92-0178631 [DE93-003795] Investigation of effects of 60-Hz electric and magnetic Potential human health effects associated with power Biomagnetic localization from transient quasi-static fields on operant and social behavior and on the frequency electric and magnetic fields events neuroendocrine system of nonhuman primates p 221 N93-24590 [PB93-132678] [DE93-007328] p 253 N93-25186 1DE93-0076781 p 211 N93-24455 Gene transcription and electromagnetic fields Automatic detection of seizures with applications Potential human health effects associated with power p 276 N93-28848 I DE93-010854 I p 254 N93-25592 frequency electric and magnetic fields **ELECTROMYOGRAPHY** Physiological indices of mental workload I PB93-132678 I p 221 N93-24590 Magnetic resonance imaging and electromyography as [AD-A261692] p 260 N93-26391 p 44 A93-14975 ELECTRIC GENERATORS indexes of muscle function Duration of alpha suppression increases with angle in Format and structure of a database on health and Electromyographic activity while performing the anti-G environmental impacts of different energy systems for a mental rotation task straining maneuver during high sustained acceleration electricity generation [DE92-634160] AD-A2615921 p 260 N93-26435 p 47 A93-16155 Electromyographic investigations of tremor in aquanauts The AFOSR Workshop on the Future of EEG and p 12 N93-10222 **ELECTRIC POWER SUPPLIES** MEG p 90 A93-18292 in simulated immersions p 335 N93-30160 IAD-A2643381 Manned lunar surface site p.316 N93-28033 Intramuscular pressure and electromyography as ELECTRIC STIMULI ELECTROLYSIS indexes of force during isokinetic exercise p 380 A93-49291 Illusions of visual-target motion caused by electrical Oxygen generation by static feedwater electrolysis for p 119 A93-25653 vestibular stimuli Space Station Freedom Sudden loading and fatigue effects on the human p 293 A93-41335 [SAE PAPER 921151] spine Potential human health effects associated with power [PB93-167526] p 286 N93-29199 Recent regenerative ECLSS technology developments frequency electric and magnetic fields **ELECTRON BEAMS** in Europe p 221 N93-24590 Utilization of high energy electron beam in the treatment [SAE PAPER 921332] p 304 A93-41493 **ELECTRO-OPTICS** of drinking and waste water Submarine Advanced Integrated Life Support system Human visual limitations on suprathreshold contrast IDE92-6423351 p 372 N93-32406 (SAILS) program perception through ANVIS p 32 N93-11812 AD-A2535641 **ELECTRON MOBILITY** [AD-A2599701 p 226 N93-24431 Wide-bandwidth high-resolution search Integrated oxygen recovery system extraterrestrial intelligence p 267 N93-26088 The quest for an integrated flying helmet [NASA-CR-192982] p 319 N93-28860 [NASA-CR-193137] p 322 N93-28895 SPE water electrolyzers in support of the lunar **ELECTROCARDIOGRAPHY** p 315 N93-27977 **ELECTRON OPTICS** outpost Advances in miniature projection CRTs for helmet Subtraction of 50 Hz interference ELECTROLYTE METABOLISM from electrocardiogram by using cycle averaging method p 229 A93-30066 displays Modification of water and electrolyte metabolism during p 11 A93-13714 **ELECTRON TRANSFER** head-down tilting by hypoglycemia in men T wave changes in humans and dogs during p 92 A93-20026 p 92 A93-20029 Primary charge separation in isolated photosystem 2 experimental dives eaction centers Pulmonary responses to lower body negative pressure Test and evaluation report of the Physic Control IDE92-0411281 o 82 N93-17189 and fluid loading during head-down tilt bedrest Defibrillator/Monitor, Model LifePak(tm) 6s Measuring the metastatic potential of cancer cells p 162 A93-28682 Effects of head-down tilt and saline loading on body p 52 N93-14103 [AD-A255691] p 244 N93-25566 MAC to VAX connectivity: Heartrate spectral analysis ELECTRONIC EQUIPMENT TESTS weight, fluid, and electrolyte homeostasis in man p 254 N93-25594 Evaluation of an electronics p 163 A93-28685 system concept for Investigation into the common mode rejection ratio of Investigation of fluid-electrolyte metabolism and its Respiratory Protection system (RESPO 21) p 30 N93-10288 the physiological signal conditioner circuit hormonal regulation during the second joint Soviet-French LAD-A2533941 p 245 N93-26073 Time stress measurement devices for enhancement of p 247 A93-35207 space mission **ELECTROCHEMISTRY** Body fluid compartments, renal blood flow, and onboard bit performance p 144 N93-19762 Post-treatment of reclaimed waste water based on an hormones at 6,000 m in normal subjects **ELECTRONS** electrochemical advanced oxidation process p 281 A93-41125 Radiation damage to DNA IDE92-0157601 p 301 A93-41444 ISAE PAPER 921275) Does drinking protect against mountain sickness? p 5 N93-10834 ELECTRONYSTAGMOGRAPHY ELECTRODES p 382 A93-49565 New technologies for in-flight pasteless bioelectrodes Electronystagmography and audio potentials in space Nocturnal pituitary hormone and renin profiles during p 387 A93-52619 flight p 9 A93-11675 p 289 A93-41174 chronic heat exposure ELECTROPHORESIS **ELECTROENCEPHALOGRAPHY** Vascular uptake of rehydration fluids in hypohydrated Cortical localization of cognitive function by regression men at rest and exercise Evaluation of capillary electrophoresis for in-flight ionic INASA-TM-1039421 contaminant monitoring of SSF potable water of performance on event-related potentials p 255 N93-26133 p 300 A93-41438 |SAE PAPER 921268| p 9 A93-10337 ELECTROLYTES Separation of rat pituitary secretory granules by ontinuous flow electrophoresis p 329 A93-44933 SPE water electrolyzers in support of the lunar utpost p 315 N93-27977 Effect of DL-DOPA, L-5-HTP and pentobarbital sodium continuous flow electrophoresis on brain encephalofluctuographs in rats outpost Transcutaneous analyte measuring methods The effects of prolonged growth in elevated CO2 p.2 A93-13530 AD-A262861 p 333 N93-29509 concentrations in the field on the amounts of different leaf The effects of exposure to 50 mT ELF magnetic fields ELECTROLYTIC CELLS p 4 A93-13712 for 96 h on rabbit EEG IDE93-0029401 p 115 N93-19751 A low pressure electrolyzer for the next generation The evaluation of tolerance to serious acute hypoxia Development of resonance ionization spectroscopy for submarine p 11 A93-13715 in humans genome mapping and DNA sequencing using stable isotopes as DNA labels [SAE PAPER 921125] p 291 A93-41316 EEG changes in man during motion sickness induced Submarine Advanced Integrated Life Support system by parallel swing p 92 A93-19996 p 246 N93-26587 (SAILS) program Spectral analysis of the electroencephalographic p 32 N93-11812 Electrophoretic separation of cells and particles from response to motion sickness p 116 A93-24041 **ELECTROMAGNETIC COMPATIBILITY** rat pituitary and rat spleen Rated performance, cardiovascular and quantitative [NASA-CR-193073] p 276 N93-28415 Test and evaluation report of the Physio Control EEG parameters during simulated instrument flight under Comparative mutagenesis of human cells in vivo and Defibrillator/Monitor, Model LifePak(tm) 6s the effect of terfenadine p 165 A93-28708 in vitro n 52 N93-14103 LAD-A2556911 p 276 N93-28651 ELECTROMAGNETIC FIELDS IDF93-0122691 Electroencephalogram epileptiform abnormalities in candidates for aircrew training p 170 A93-28757 Development of K.E. Tsiolkovsky's ideas on the ELECTROPHYSIOLOGY Electrophysiological and ultrastructural aspects of the Self-organizing character of alpha wave in EEG due to interaction between space, nature, and man p 90 A93-18408 Accumulation of calcium ions in the myocardial effect of high-pressure oxygen on the sensomotor cortex acute hypoxic hypoxia in normal subjects p 77 A93-18300 of the rat brain p 213 A93-30436 Cardiac bioelectric activity in healthy men during a sarcoplasmic reticulum of restrained rats exposed to a The OMPAT level 1 Neurophysiological Performance pulsed electromagnetic field 370-day head-down tilt experiment p 247 A93-35208 Electromyographic patterns of the thermoregulatory p 240 A93-35225 Assessment Battery: NPPAB Mechanisms of microwave induced damage in biologic p 27 N93-12432 1AD-A2548401 activity of motor units during cooling of the organism materials A weighted iterative algorithm for neuromagnetic p 360 A93-46968 Effects of early bright, late bright and dim illumination [AD-A255799] p 42 N93-14648 imaging Gene transcription and electromagnetic fields IDE92-0402441 p 51 N93-13522 p 276 N93-28848 upon circadian neuroendocrine, electrophysiological and IDE93-010854 I Extrathalmic modulation of cortical function Mechanisms of microwave induced damage in biologic behavioral responses p 53 N93-14782 [AD-A255440] AD-A254129 p 13 N93-10661 materials Cognition and the brain AD-A2644151 p 358 N93-32035 Mental workload assessment in the cockpit: Feasibility IAD-A2554831 p 59 N93-14788 ELECTROMAGNETIC INTERFERENCE Subtraction of 50 Hz in of using electrophysiological measurements, phase 1 [AD-A254138] Effects of terfenadine and diphenhydramine on brain p 25 N93-10662 activity and performance in a UH-60 flight simulator electrocardiogram by using cycle averaging method Effective neurons and attractor neural networks in p 11 A93-13714 [AD-A258012] p 119 N93-17817 cortical environment Test and evaluation report of the Physio Control [PREPRINT-829] p 82 N93-17214 A toposcopic investigation of brain electrical activity induced by motion sickness Defibrillator/Monitor, Model LifePak(tm) 6s Physiological indices of mental workload p 52 N93-14103 p 124 N93-18952 4AD-A2556911 [AD-A261692] p 260 N93-26391 IAD-A2590241

The use of electrophysiological and cognitive variables in the assessment of degradation during periods of sustained wakefulness IAD-A2630331 p 283 N93-27923 An assessment of peripheral nerve damage in the rat following non-freezing cold exposure: An electrophysiological and histopathological examination IAD-A2642931 p 331 N93-30818 **ELEVATION** Visual perception of elevation [AD-A261394] p 259 N93-26307 **ELEVATORS (LIFTS)** Platform stair lift INASA-CASE-MFS-28772-1 p 353 N93-29845 EMBEDDING Virtual interface applications for airborne weapons systems p 318 N93 28858 **EMBOLISMS** Peripheral arterial thrombosis related to commercial airline flights - Another manifestation of the economy class p 215 A93-32775 High-altitude pulmonary edema with pulmonary thromboembolism p 278 A93-39709 **EMBRYOLOGY** Localization of extracellular matrix components in developing mouse salivary glands by confocal p 155 A93-28725 Early amphibian (anuran) morphogenesis is sensitive to p 156 A93-28745 novel gravitational fields Alterations in biosynthetic accumulation of collagen types I and III during growth and morphogenesis of embryonic mouse salivary glands p 156 A93-28746 p 156 A93-28746 Altering the position of the first horizontal cleavage furrow of the amphibian (Xenopus) egg reduces embryonic p 272 A93-39717 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 375 A93-49179 **EMBRYOS** Computer-aided mechanogenesis of skeletal muscle organs from single cells in vitro p 205 A93-33045 The Inkubator-2 complex for studying the embryonic and postembryonic development of birds in conditions of p 241 A93-35242 reightlessness **EMERGENCIES** Psychophysiological factors which impair professional reliability of a pilot in emergency situations p 129 A93-23150 Emergency medical operations at Kennedy Space p 166 A93-28712 Center in support of space shuttle Psychophysiological principles of flight training for actions in nonroutine situations p 256 A93-35233 Failure mode workload theory and planning p 349 A93-42848 **EMOTIONAL FACTORS** The rhythm of heart activity and arrhythmia in long-term p 119 A93-25652 space flights The asthenic syndrome and the dynamics of p 256 A93-35241 mental-work capacity Changes in the brain blood flow and respiration during sychoemotional stress p 252 A93-36723 psychoemotional stress Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 Motion sickness susceptibility and behavior p 405 A93-55948 Effectiveness of birthdate biorhythm theory on flight accidents p 127 N93-19710 Subjective mood and fatigue of C-141 crew during Desert p 370 N93-32264 **EMPHYSEMA**

Correlation of serum alpha sub 1 antitrypsin with cigarette smoking and pulmonary function status in Greek pilots, for a ten year period p 22 N93-11318 **EMPLOYEE RELATIONS** Organizational politics, participation in decision-making, and job satisfaction DOT/FAA/AM-92/17 I p 257 N93-25203 **ENCEPHALITIS** Immunization of personnel traveling to a destination in p 19 N93-11304 tropical countries: French position END EFFECTORS In search of the human touch --- in design of robotic

Operator vision aids for space teleoperation assembly p 33 N93-11981 and servicing Bar-holding prosthetic limb n 70 N93-14870 **ENDOCRINE GLANDS** Joint HVAC transmission EMF environmental study IDE92-0178631 p 43 N93-15211 ENDOCRINE SYSTEMS Beta-endorphin and arginine vasopressin following p 47 A93-16158 stressful sensory stimuli in man Effects of acute hypoxia on renal and endocrine function at rest and during graded exercise in hydrated subjects p 93 A93-20035 The state of the endocrine system of rats of different age under conditions of immobilization stress and biomos administration p 242 A93-35671 Nocturnal pituitary hormone and renin profiles during p 387 A93-52619 chronic heat exposure A review of models of the human temperature regulation LAD-A2580231 p 120 N93-17918 Investigation of effects of 60-Hz electric and magnetic fields on operant and social behavior and on the neuroendocrine system of nonhuman primates p 211 N93-24455 LDE93-0076781 ENDOCRINOLOGY AFRRI reports p 49 N93-12649 IAD-A2545811 Transcutaneous Analyte Measuring Methods (TAMM), ohase 2 AD-A256327 | p 54 N93-15192 A review of models of the human temperature regulation LÁD-A258023 L n 120 N93-17918 An annotated bibliography of research involving women, conducted at the US Army Research Institute of

Environmental Medicine p 360 N93-31917 I AD-A265497 I **ENDOTHELIUM** Effect of acute hypoxia exposures on plasma endothelin

p 199 A93-30442 in rate

ENDOTOXINS

Endotoxin priming followed by high-altitude causes pulmonary edema in rats p 323 A93-42186

A computer-based visual analog scale IAD-A2581521 p 122 N93-18280 Combined strength and endurance training: Functional and morphological adaptations to ten weeks of training IAD-A2610591 p 267 N93-26229

ENERGETIC PARTICLES

Accelerated heavy particles and the lens. VIII - Comparisons between the effects of acute low doses of iron ions (190 keV/microns) and argon ions (88 keV/microns) p 216 A93-32784 keV/microns)

ENERGY ABSORPTION

Specific absorption rate and radiofrequency current-to-ground in human models exposed to near-field p 360 A93-47098 irradiation

Design of a reusable kinetic energy absorber for an astronaut safety tether to be used during extravehicular activities on the Space Station

p 139 N93-17973 [NASA-CR-192015]

ENERGY BUDGETS

Biomass productivity and sustainability of a bioregenerative life-support system p 307 A93-41518 [SAE PAPER 921359]

ENERGY CONSUMPTION

Nutritional assessment of United States tactical air command pilots p 367 N93-32242

ENERGY REQUIREMENTS

Portable equipment developed to estimate energy expenditure by simultaneous recording of heart rate and p 368 N93-32243 body position

ENERGY TRANSFER

Linear tetrapyrroles (phycobilins) in a p 398 A93-53350 prebiological system

ENGINEERING

Diversity in biological research NSF-92-19 p 42 N93-13700

ENGINEERS

p 102 A93-19256

p 184 A93-27034

p 193 A93-29137

p 230 A93-31031

p 261 A93-34012

Grasp synthesis for planar and solid objects

within a reduced gravity environment

[AIAA PAPER 93-1156]

macro/smart effector system

approach. I [AIAA PAPER 93-1463]

the SSRMS concept and technical issues

An experiment in vision based autonomous grasping

Robotics evaluation and characterization (REACH) of

Development of a large space robot - A multi-segment

Skill compensation and dynamic coupling of nacro/smart effector system p 411 A93-56260

A study of illness related lost time in transport aircraft crewmembers p 132 N93-18298

[AD-A258193] **ENTOMOLOGY**

Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored products

[AD-A255224] p 51 N93-13941

ENTRAINMENT

Neurophysiological analysis of circadian rhythm entrainment I AD-A264681 I p 361 N93-32018 ENTRAPMENT

Evaluation of hole sizes in structures requiring EVA services as a means to prevent gloved-hand linger entranment

INASA-TM-104767 I

p 234 N93-23129

ENVIRONMENT EFFECTS

Format and structure of a database on health and environmental impacts of different energy systems for electricity generation p 12 N93-10222

[DE92-634160]

The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO p 5 N93-11630

IDE92-0194111 ENVIRONMENT MANAGEMENT

Treatment of human-computer interface in a decision support system |DE93-002281| p 237 N93-24502

ENVIRONMENT MODELS

Katz model prediction of Caenorhabditis elegans mutagenesis on STS-42 p 50 N93-13023

[NASA-TM-4383]

ENVIRONMENT POLLUTION Format and structure of a database on health and environmental impacts of different energy systems for electricity generation

p 12 N93-10222 IDE92-6341601 Space life support technology applications to terrestrial p 265 N93-25617 environmental problems

ENVIRONMENT PROTECTION

Scaling issues for biodiversity protection

p 6 N93-12315 IDE92-0166891 Monitoring human tissues for toxic substances [PB92-223239] p 173 N9

p 173 N93-21498

ENVIRONMENT SIMULATION

Model building, algorithm and simulation of the pressure control system of a cabin p 29 A93-13534 Virtual environment display for a 3D audio room p 408 A93-53125 simulation The relationship between environmental conditions and

UH-60 cockpit temperature

n 69 N93-14090 LAD-A2559181

ENVIRONMENT SIMULATORS

Development of a tactile perceived attitude transducer I AD-A2537241 p 25 N93-11081

ENVIRONMENTAL CONTROL

Experimental research of the temperature and humidity control system for manned spacecraft cabin

p 10 A93-13529 Model building, algorithm and simulation of the pressure p 29 A93-13534 control system of a cabin

The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 Dynamic multiobjective decision and its application in

environmental control and life support system p 230 A93-30439 influence of space-flight factors on growth of spirulina p 199 A93-30441

Space Station Water Processor - Current flight design ISAE PAPER 9211121 p 289 A93-41306 Overview of NASA's 1991 Life Support Systems Analysis

Workshop ISAE PAPER 9211181 p 290 A93-41310

The development of an atmosphere composition monitor

for the Environmental Control and Life Support System | SAE PAPER 921149 | p 292 A93-41333 Oxygen generation by static feedwater electrolysis for Space Station Freedom

SAE PAPER 921151] p 293 A93-41335 The Centrifuge Facility Life Sciences Glovebox configuration study

[SAE PAPER 921158] p 293 A93-41341

Zero gravity phase separator technologies - Past, present and future |SAE PAPER 921160| p 293 A93-41342

Conceptual design of ECLSS microgravity test beds |SAE PAPER 921164| p 294 A93-41346

Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF)

p 294 A93-41365 ISAF PAPER 9211861 A trade study method for determining the design

parameter of CELSS subsystems p 295 A93-41374 ISAF PAPER 9211981

A systems approach to water recovery testing for space life support - Initial biomedical results from the ECLSS Water Recovery Test and plans for testbed utilization |SAE PAPER 921210| p 295 A93-41386

Dew point analysis for Space Station Freedom p 296 A93-41401 ISAE PAPER 9212271 Comparative test data assessment and simplified math modelling for Sabatier CO2 reduction subsystem p 296 A93-41402 SAE PAPER 9212281

p 330 N93-29915

p 21 N93-11317

p 215 A93-32777

p 216 A93-32786

p 14 N93-11283

p 15 N93-11287

p 15 N93-11288

p 15 N93-11289

p 15 N93-11290

p 16 N93-11291

p 16 N93-11294

p 18 N93-11300

p 18 N93-11303

p 21 N93-11314

p 81 N93-16800

p 82 N93-17359

p 127 N93-19838

p 221 N93-24590

p 253 N93-25214

p 334 N93-30153

p 362 N93-32252

p 272 A93-39715

p 376 A93-49214

p 170 - A93-28757

p 254 N93-25592

alpha/beta

p 1 A93-10125

p 203 A93-33028

p 78 A93-20032

p 329 A93-44935

p 13 N93-10626

p 159 N93-21933

immunization

A93-34858

p 239

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LAD-A2635981

EOSINOPHILS

ENVIRONMENTAL MONITORING

The effects of a reduced seasons are the
The effects of a reduced pressure scenario on the Columbus APM environmental control system
System integration and verification approach for the
environmental control system of the Columbus Attached
Pressurised Module
SAE PAPER 921261 p 299 A93-41431
The analytical control program for the NASA Space
Station Freedom Environmental Control and Life Support
System (ECLSS) Water Recovery Test
ISAE PAPER 9212691 p 300 A93-41439
Environmental control of the Mini Pressurized Logistic
Module
[SAE PAPER 921281] p 302 A93-41449
Recent regenerative ECLSS technology developments
in Europe
[SAE PAPER 921332] p 304 A93-41493
Life Support and Habitability Manual ESA PSS-03-406
[SAE PAPER 921338] p 305 A93-41497
Shuttle Orbiter Environmental Control and Life Support
System - Flight experience
ISAE PAPER 921348 p 305 A93-41507
Air Handling and Atmosphere Conditioning systems for
manned spacecraft - A design and performance data
survey
ISAE PAPER 921350 p 306 A93-41509
The General Purpose Work Station, a spacious
microgravity workbench
ISAE PAPER 9213941 p 309 A93-41552
Space Station and lunar/Mars life support research
p 346 A93-42122
A systems approach to water recycling research
p 347 A93-42149
Space habitat environmental health - A systems issue
p 347 A93-42151
Minitron II system for precise control of the plant growth environment p. 357 A93-46470
The Minitron system for growth of small plants under controlled environment conditions p 358 A93-46471
The first 'space' vegetables have been grown in the
'SVET' greenhouse using controlled environmental
conditions p 394 A93-52410
Life support systems
[AAS PAPER 91-320] p 409 A93-54308
Distributed environmental control p 32 N93-11924
ECLSS evolution: Advanced instrumentation interface
requirements. Volume 3: Appendix C
[NASA-CR-184367] p 64 N93-12990
The environmental control and life-support system for
a lunar base: What drives its design p 66 N93-13991
Life systems for a lunar base p 66 N93-13992
Automation of closed environments in space for human
comfort and safety
[NASA-CR-192045] p 138 N93-17971
Space Station ECLSS integration analysis
[NASA-CR-192470] p 195 N93-22002
Closed Ecological Life Support Systems (CELSS) Test
Facility p 233 N93-22628
Zero-G life support for Space Station Freedom p 233 N93-22640
Advanced life support study. Modification 10: ECLSS
Indistinal support analysis for Space Station Freedom
NASA-CR-192481 p 266 N93-25888
Environmental control and life support system
p 311 N93-27718
Environmental control and life support system
evolution p 311 N93-27719
Technologies for ECLSS evolution
p 311 N93-27720
The ECLSS advanced automation project evolution and
technology assessment p 312 N93-27723
Marshall Space Flight Center ECLSS technology
Marshall Space Flight Center ECLSS technology activities p 312 N93-27724
Marshall Space Flight Center ECLSS technology activities p 312 N93-27724 JSC ECLSS R/T program overview
Marshall Space Flight Center ECLSS technology p 312 N93-27724 JSC ECLSS R/T program overview p 312 N93-27725
Marshall Space Flight Center ECLSS technology p 312 N93-27724 JSC ECLSS R/T program overview p 312 N93-27725 Environmental control and life support systems
Marshall Space Flight Center ECLSS technology activities p 312 N93-27724 JSC ECLSS R/T program overview p 312 N93-27725 Environmental control and life support systems p 314 N93-27858
Marshall Space Flight Center ECLSS technology activities p 312 N93-27724 JSC ECLSS R/T program overview p 312 N93-27725 Environmental control and life support systems p 314 N93-27858 Assessment of the state of the art in life support
Marshall Space Flight Center ECLSS technology p 312 N93-27724 JSC ECLSS R/T program overview p 312 N93-27725 Environmental control and life support systems p 314 N93-27858 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978
Marshall Space Flight Center ECLSS technology postricties p 312 N93-27724 JSC ECLSS R/T program overview p 312 N93-27725 Environmental control and life support systems p 314 N93-27858 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support
Marshall Space Flight Center ECLSS technology activities p 312 N93-27724 JSC ECLSS R/T program overview p 312 N93-27725 Environmental control and life support systems p 314 N93-27858 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979
Marshall Space Flight Center ECLSS technology p 312 N93-27724 JSC ECLSS R/T program overview p 312 N93-27725 Environmental control and life support systems p 314 N93-27858 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033
Marshall Space Flight Center ECLSS technology p 312 N93-27724 JSC ECLSS R/T program overview p 312 N93-27725 Environmental control and life support systems p 314 N93-27858 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Automation of closed environments in space for human
Marshall Space Flight Center ECLSS technology activities p 312 N93-27724 JSC ECLSS R/T program overview p 312 N93-27725 Environmental control and life support systems p 314 N93-27858 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Automation of closed environments in space for human comfort and safety p 352 N93-29734
Marshall Space Flight Center ECLSS technology p 312 N93-27724 JSC ECLSS R/T program overview p 312 N93-27725 Environmental control and life support systems p 314 N93-27858 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-28033 Automation of closed environments in space for human comfort and safety p 355 N93-29734 Atmospheric control systems p 355 N93-31456
Marshall Space Flight Center ECLSS technology p 312 N93-27724 JSC ECLSS R/T program overview p 312 N93-27725 Environmental control and life support systems p 314 N93-27858 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Automation of closed environments in space for human comfort and safety p 352 N93-29734 Atmospheric control systems p 365 N93-31456 Microbiological test results of the environmental control
Marshall Space Flight Center ECLSS technology activities p 312 N93-27724 JSC ECLSS R/T program overview p 312 N93-27725 Environmental control and life support systems p 314 N93-27858 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Automation of closed environments in space for human comfort and safety p 352 N93-29734 Atmospheric control systems p 365 N93-31456 Microbiological test results of the environmental control and life support systems vapors compression distillation
Marshall Space Flight Center ECLSS technology activities p 312 N93-27724 JSC ECLSS R/T program overview p 312 N93-27725 Environmental control and life support systems p 314 N93-27858 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Automation of closed environments in space for human comfort and safety p 352 N93-29734 Atmospheric control systems p 365 N93-31456 Microbiological test results of the environmental control and life support systems vapors compression distillation subsystem recycle tank components following various
Marshall Space Flight Center ECLSS technology activities p 312 N93-27724 JSC ECLSS R/T program overview p 312 N93-27725 Environmental control and life support systems p 314 N93-27858 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27978 Manned lunar surface site p 316 N93-28033 Automation of closed environments in space for human comfort and safety p 352 N93-29734 Atmospheric control systems p 365 N93-31456 Microbiological test results of the environmental control and life support systems vapors compression distillation subsystem recycle tank components following various pretreatment protocols
Marshall Space Flight Center ECLSS technology activities p 312 N93-27724 JSC ECLSS R/T program overview p 312 N93-27725 Environmental control and life support systems p 314 N93-27858 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Automation of closed environments in space for human comfort and safety p 352 N93-28033 Atmospheric control systems p 355 N93-31456 Microbiological test results of the environmental control and life support systems vapors compression distillation subsystem recycle tank components following various oretreatment protocols NASA-CR-1925701 p 359 N93-32354
Marshall Space Flight Center ECLSS technology activities p 312 N93-27724 JSC ECLSS R/T program overview p 312 N93-27725 Environmental control and life support systems p 314 N93-27858 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27978 Manned lunar surface site p 316 N93-28033 Automation of closed environments in space for human comfort and safety p 352 N93-28034 Atmospheric control systems p 365 N93-31456 Microbiological test results of the environmental control and life support systems vapors compression distillation subsystem recycle tank components following various pretreatment protocols NASA-CR-1925701 p 359 N93-32354 Microbiological and corrosion analysis of three urine
Marshall Space Flight Center ECLSS technology activities p 312 N93-27724 JSC ECLSS R/T program overview p 312 N93-27725 Environmental control and life support systems p 314 N93-27858 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Automation of closed environments in space for human comfort and safety p 352 N93-28033 Atmospheric control systems p 355 N93-31456 Microbiological test results of the environmental control and life support systems vapors compression distillation subsystem recycle tank components following various oretreatment protocols NASA-CR-1925701 p 359 N93-32354

Environmental monitoring and research at the John F.

p 154 A93-28714

```
Space Station Freedom Environmental Health Care
  ISAE PAPER 9211381
                                     p 292 A93-41325
    Microbiological concerns
                                 and
                                        methodological
  approaches related to bacterial water quality
  spaceflight
  |SAE PAPER 921232|
                                     p 297 A93-41406
    Instrumentation for
                            microbial
                                       monitoring of
   decontamination or biocide system effectiveness
                                     p 297 A93-41407
  ISAE PAPER 9212331
    Crew Health Care Systems installations for Space
  Station Freedom
  [SAE PAPER 921249]
                                     p 298 A93-41420
    Continuous monitoring of effluent iodine levels of Space
  Station water using solid state technology
                                     p 299 A93-41435
  ISAF PAPER 9212651
    Measurement of free and dissolved gas content of water
   samples on Space Station Freedom
  |SAE PAPER 921267|
                                     p 300 A93-41437
    First entry operations for spacecraft
  ISAE PAPER 9213841
                                     p 308 A93-41542
    Technology development for
                                    lunar base water
                                      p 67 N93-13999
  recycling
    Time stress measurement devices for enhancement of
                                     p 144 N93-19762
  onboard bit performance
                                     p 217 N93-22630
    Crew health
ENVIRONMENTAL QUALITY
    Kennedy Space Center environmental health program
                                     p 166 A93-28713
                                      facilities aboard
    Microbiology operations
                              and
 restructured Space Station Freedom
ISAE PAPER 9212131
                                     p 296 A93-41389
ENVIRONMENTAL TESTS
    Methods for test and evaluation of night vision goggle
  integrated helmets
                                     p 188 A93-27182
ENZYME ACTIVITY
  Selection of a ribozyme that functions as a superior template in a self-copying reaction p 111 A93-22053
   Effects of cold injury on serum angiotensin converting
  enzyme activities in rats
                                     D 199 A93-30444
    Cell wall and enzyme changes during the graviresponse
  of the leaf-sheath pulvinus of oat (Avena sativa)
                                     p 329 A93-44941
    Ozone - A new aspect of its effect on microorganisms
                                     p 398 A93-54971
   Mechanical stimulation of skeletal muscle increases
  prostaglandin F2(alpha) synthesis and cyclooxygenase
  activity by a pertussis toxin sensitive mechanism
                                    p 282 N93-27102
 INASA-CR-1930411
    Comparative mutagenesis of human cells in vivo and
 in vitro
 I DE93-0122691
                                    p 276 N93-28651
ENZYMES
   Selection of a ribozyme that functions as a superior
  template in a self-copying reaction
   Effect of acute hypoxia exposures on plasma endothelin
                                    p 199 A93-30442
 in rats
   Purification and properties of an ATPase from Sulfolobus
 solfataricus
                                     p 201 A93-32115
   Nucleotide-protectable labeling of sulfhydryl groups in
 subunit I of the ATPase from Halobacterium
                                    p 201 A93-32116
 saccharovorum
    Unexpected substrate specificity of T4 DNA ligase
 revealed by in vitro selection
                                    p 397 A93-52878
   Ribozymes - A distinct class of metalloenzymes
                                    p 398 A93-54163
   DNA topoisomerase V is a relative of eukaryotic
 topoisomerase I from a hyperthermophilic prokaryote
                                     n 399 A93-55580
   Nitrogen control of chloroplast development and
 IDE92-0173921
                                      p 39 N93-12768
   Complement proteins and decompression sickness
  susceptibility
```

p 50 N93-12905

p 158 N93-20959

p 209 N93-23369

p 211 N93-25104

p 244 N93-25566

p 254 N93-25900

p 276 N93-28651

p 276 N93-28890

Biochemically active layers for selective material

Biotechnical production and use of pyruvic acid with

Kinetic studies of interfacial photocurrents in platinized

Cellular and tissue injury during nonfreezing cold injury

Comparative mutagenesis of human cells in vivo and

Introductions to the Proceedings of the Fourteenth

Symposium on Biotechnology for Fuels and Chemicals

Measuring the metastatic potential of cancer cells

special reference to coenzyme regeneration

1AD-A2544481

detection sensors

IVTT-PUBS-771

[DE93-002344]

chloroplasts

and frostbite

in vitro [DE93-012269]

IAD-A2605741

IDE93-0062351

[MBB-Z-0440-92-PUB]

```
Altergic and nonallergic rhinitis in Greek pilots
 EPIDEMIOLOGY
     Occupational dermatitis in the aircraft industry - 35 years
     progress p 215 A93-32776
Hypertension and the probability of an incapacitating
   of progress
   event over a defined period - Impact of treatment
     Comparison of spinal health indicators in predicting
   spinal status in a 1-year longitudinal study
     On the biological effects of cosmic rays - Epidemiological
     Allergic, Immunological and Infectious Disease Problems
   in Aerospace Medicine
   [AGARD-CP-518]
     Viral hepatitis in the US Air Force, 1980 - 1989
     Hepatitis A and Hepatitis B: Risks compared to other
  vaccine preventable diseases and recommendations p 1
     Vaccination against Hepatitis B: The Italian strategy
     HIV infection in the nineties
     AIDS/HIV in the US Military
     HIV variability and perspectives of a vaccine
     Communicable diseases: A major burden of morbidity
  and mortality
    Dramatic reduction of meningococcal meningitis among
   military recruits in Italy after introduction of specific
   vaccination
    Epidemiologic view of allergic diseases in North America:
  Implications for aerospace medicine p 20 N93-11311
In vivo and in vitro diagnosis of allergic respiratory
   disease during screening procedures in the Italian Navy:
  Comparative
                evaluation of a recent quantitative
  automatized enzyme immunoassay method to dose
    Epidemiologic research in Antarctica
    Mathematics and biology: The interface, challenges and
  opportunities
  IDE92-0412071
  Epidemiology of United States Air Force spatial disorientation accidents: 1990-1991 p 133 N93-19679
    Health effects of low-frequency electric and magnetic
  (DE93-0056751
    Potential human health effects associated with power
   frequency electric and magnetic fields
  1PB93-1326781
    The prevalence of artificial lens implants in the civil
  airman population
  [DOT/FAA/AM-92/14]
    The chronic effects of jP-8 jet fuel exposure on the
  lungs
  [AD-A264162]
    Cardiovascular risk factors in an Italian Air Force
  population: Preliminary report
EPIDERMIS
    Inhibition of EGF-induced signal transduction by
  microgravity is independent of EGF receptor redistribution
  in the plasma membrane of human A431 cells
    Altered gravity conditions affect early EGF-induced
  signal transduction in human epidermal A431 cells
    Electroencephalogram epileptiform abnormalities in
  candidates for aircrew training
    Automatic detection of seizures with applications
EPINEPHRINE
    The adrenalin/noradrenalin and the
  adrenoreceptor correlations in the myocardium and the
  adrenergic chronotropic and ignotropic reactions under
  extreme conditions and during adaptation
    Relationship between pituitary ACTH content and
  hypothalamic catecholamines in the rat
EPITHELIUM
    Time course of functional repair of the alveolar
```

epithelium after hyperoxic injury

of rat seminiferous epithelium

tracheal epithelial cells in vitro

Explosives search dogs

[DE92-013510]

Effects of spaceflight on the spermatogonial population

Understanding mechanisms of carcinogenesis using rat

Kennedy Space Center

SUBJECT INDEX **EXOBIOLOGY EPOXY MATRIX COMPOSITES** Relationship between alcohol drinking habit and blood pressure changes during the period of 25 years on JASDF The design of mechanically compatible fasteners for adaptation human mandible reconstruction p 253 N93-25569 p 333 A93-45321 [AD-A257934] The time-course of alcohol impairment of general **FOLIATIONS OF MOTION** Operator-assisted planning and execution of proximity aviation pilot performance in a Frasca 141 simulator operations subject to operational constraints p 384 A93-52299 140-42613881 p 194 N93-21436 **ETIOLOGY** Visualization techniques for analyzing control of human Cases from the aerospace medicine residents' teaching file: Case No.52 - A flyer with syncope (clinical movement: Affine mappings between multi-dimensional conference) p 168 A93-28740 [AD-A264293] p 353 N93-30204 EQUIPMENT SPECIFICATIONS Vestibular problems in diving and in space EVOLUTION (DEVELOPMENT) Distribution of human waste samples in relation to sizing Vestibular ataxia following shuttle flights - Effects of p 68 N93-14001 waste processing in space microgravity on otolith-mediated sensorimotor control of Space Station Freedom biomedical monitoring and p 169 A93-28750 countermeasures: Biomedical facility hardware catalog Peripheral arterial thrombosis related to commercial INASA-CR-193156] central Wyoming. X - Bunophorus p 246 N93-26700 Two strikes against perfect phylogeny airline flights - Another manifestation of the economy class Artiodactyla) EQUIPOTENTIALS p 215 A93-32775 Possible biological significance of the curvature of equipotential surfaces of gravity-force tidal variations Accelerated heavy particles and the lens. VIII Comparisons between the effects of acute low doses of IRUU-CS-92-081 Life in and from space p 324 A93-43025 ions (190 keV/microns) and argon ions (88 EXAMINATION **ERGOMETERS** keV/microns) n 216 A93-32784 A modified method for investigating gastric secretion Design of a vibration isolation system for a cycle Temporal analysis of the October 1989 proton flare using in aviation medical examination ergometer to be used onboard the Space Shuttle computerized anatomical models p 216 A93-32785 EXCRETION [NASA-CR-192021] p 138 N93-17970 Barotrauma in Boeing 737 cabin crew Effects of hypoxemia at sea level and high altitude on Development and implementation of the MotoMir p 278 A93-39706 experiment on the Mir Space Station Motion sickness induced by sinusoidal linear p 220 N93-24363 n 272 A93-39712 (urodilatin) excretion in humans acceleration in rats **ERROR ANALYSIS** Statistical prediction of space motion sickness **EXERCISE PHYSIOLOGY** Analyzing the path of responding in maze-solving and p 403 A93-55943 other tasks p 202 A93-32652 Motion sickness susceptibility and behavior on decompression sickness A new test of scanning and monitoring ability: Methods p 405 A93-55948 The screening of inhalant allergic diseases in the and initial results cardiovascular drift during exercise p 24 N93-10321 [AD-A2491231 selection of candidates for aircraft piloting A psychometrically sound cognitive diagnostic model: p 21 N93-11312 function during bed rest Effect of remediation as empirical validity In vivo and in vitro diagnosis of aflergic respiratory p 52 N93-14109 disease during screening procedures in the Italian Navy: Comparative evaluation of a recent quantitative [AD-A2559261 non-weight-bearing soleus muscle atrophy Modeling human response errors in synthetic flight p 78 A93-20033 simulator domain p 141 N93-19464 automatized enzyme immunoassay method to dose **ERRORS** specific IgE p 21 N93-11314 Errors in aviation maintenance - Taxonomy and Complement proteins and decompression sickness p 93 A93-20035 p 175 A93-27135 susceptibility control IAD-A2544481 p 50 N93-12905 Identification of hazardous awareness states in monitoring environments [SAE PAPER 921136] Training, muscle fatigue and stress fractures IAD-A2552771 p 54 N93-15006 uptake during treadmill walking in water p 287 A93-41324 Effect of contrast on human speed perception p 94 A93-20898 Operation Everest II - Metabolic and hormonal [NASA-TM-103898] p 141 N93-19104 Swimming behavior of the unicellular flagellate, Euglena Evaluation of lens distortion errors in video-based motion gracilis, in simulated and real microgravity responses to incremental exercise to exhaustion p 151 A93-26549 analysis n 115 A93-21685 **EUKARYOTES** Intracellular targeting of the Yersinia YopE cytotoxin in mammalian cells induces actin microfilament disruption

p 275 N93-27989

n 276 N93-29181

p 113 N93-18552

p 24 A93-13410

p 129 A93-23693

p 295 A93-41376

p 305 A93-41497

p 225 N93-24345

p 278 A93-39706

p 394 A93-52504

p 30 N93-10713

p 27 N93-12432

N93-14548

p 69

Regulation of alternative CO2 fixation pathways in

Europa: Prospects for an ocean and exobiological

The training of the new astronaut candidates at EAC

European involvement in CELSS - Definition of a Closed

Life Support and Habitability Manual ESA PSS-03-406

Selection of astronauts for European space missions

Recommendations for mental workload measurement

KC-135 crew reduction feasibility demonstration

Evaluation and estimation of handling qualities via

Evaporation cycle experiments - A simulation of

simulation study. Volume 3: Test and evaluation

statistical modeling of pilot response data

C.R.M. training for the advanced flight deck

procaryotic and eucaryotic photosynthetic organisms

(NASA-TP-3266) p 258 N93-25736 **ERYTHROCYTES**

Alteration of structure and mobility of erythrocyte aggregates under normal- to microgravity conditions p 200 A93-32072 Autorosette formation in the peripheral blood of people

with lengthy limitations of motor activity p 250 A93-35245

Age-related changes in hemoglobin and erythrocyte p 250 A93-35250 Freeze-dried human red blood cells

p 14 N93-11193 Cellular and tissue injury during nonfreezing cold injury and frostbite

[AD-A260574] p 254 N93-25900 **ESCALATORS**

Platform stair lift

p 353 N93-29845

[NASA-CASE-MFS-28772-1] ESCAPE SYSTEMS An epidemiological study in SAF's pilots ejections

p 143 N93-19699

ESTIMATES Comparison of total body water estimates from O-18

and bioelectrical response prediction equations p 218 N93-23734 INASA-TP-32991

ESTROGENS Heterogeneity of rat pituitary prolactin cells Relationships among location, hormone assay and estrous

cycle stage p 358 A93-46606 **ETHICS**

Ethical concerns in the practice of military aviation pedicine p 89 A93-18045 The lunar community church: Contributions to lunar living

and to evolution of ethical and spiritual thinking p 57 N93-14020

ETHNIC FACTORS

company's results

Multicultural factors in the space environment - Results of an international shuttle crew debrief

p 222 A93-30277 ETHYL ALCOHOL

The effect of low blood alcohol levels on pilot performance in a series of simulated approach and landing p 179 A93-27453 Features of an ethanol effect in operators with different states of skin tissue basophils p 250 A93-35252

Alcoholism and treatment in airline aviators - One

p 257 A93-35499

salt-induced peptide synthesis under possible prebiotic p 354 A93-43792 conditions EVOKED RESPONSE (PSYCHOPHYSIOLOGY) Psychophysiological study on the effects of co-existence of lines for detecting dot target p 405 A93-55330 The OMPAT level 1 Neurophysiological Performance Assessment Battery: NPPAB

IFOA-B-40420-4 41

IDE93-0121091

EUROPEAN AIRBUS

EUROPEAN SPACE AGENCY

Ecological Systems Test Bed [SAE PAPER 921200]

Barotrauma in Boeing 737 cabin crew

in a test and evaluation environment

ISAE PAPER 9213381

EUSTACHIAN TUBES

AD-A253931 |

IAD-A2553241

EVAPORATION

EVALUATION

implications

Spatio-temporal masking: Hyperacuity and local n 121 N93-18006 Comparative analytical study of evoked and event related potentials as correlates of cognitive processes p 261 N93-26446 An assessment of peripheral nerve damage in the rat following non-freezing cold exposure: An electrophysiological and histopathological examination p 331 N93-30818

Comets and the origins and evolution of life; Proceedings of the Conference, Univ. of Wisconsin, Eau Claire, Sept. p 109 A93-17976 Revision of the Wind River faunas, early Eocene of (Mammalia,

p 237 N93-24373

p 359 A93-45692

sodium excretion and hormonal levels p 8 A93-10332 Effect of water immersion on renal natriuretic peptide p 381 A93-49293

The influence of prior exercise at anaerobic threshold p8 A93-10333 Influence of graded dehydration on hyperthermia and p 44 A93-14971 Effects of acute exercise on attenuated vagal baroreflex p 48 A93-16160 Eccentric exercise training as a countermeasure to

Effects of acute hypoxia on renal and endocrine function at rest and during graded exercise in hydrated subjects

Effects of insulin and exercise on rat hindlimb muscles after simulated microgravity p 78 A93-20036 Influence of viscous resistance on heart rate and oxygen

Effects of running the Bostom Marathon on plasma

concentrations of large neutral amino acids p 160 A93-27048 Effect of exercise and bisphosphonate on mineral balance and bone density during 360 day antiorthostatic

hypokinesia p 170 A93-28760 Enhanced carotid-cardiac baroreflex response and elimination of orthostatic hypotension 24 hours after acute p 216 A93-32781 exercise in paraplegics Muscle mitochondrial density after exhaustive exercise

in dogs - Prolonged restricted activity and retraining p 242 A93-35498 Intramuscular pressure and electromyography as indexes of force during isokinetic exercise

p 380 A93-49291 Prediction of maximal oxygen uptake from submaximal

exercise testing in aerobically fit and nonfit men p 385 A93-52304

Muscle glycogen, fiber type, aerobic fitness, and anaerobic capacity of West Coast US Navy Sea-Air-Land personnel (SEALs)

LAD-A258364 L p 121 N93-18209 Two techniques for measuring locomotion impact forces

[NASA-TP-3305] p 217 N93-23410 AFTERRISE: Deep body temperature following

IAD-A2598871 p 218 N93-23984 Combined strength and endurance training: Functional and morphological adaptations to ten weeks of training IAD-A2610591 p 267 N93-26229

Beta-adrenergic blockade and lactate metabolism during exercise at high altitude p 334 N93-29820 IAD-A2635441

Field trial of caffeine on physical performance at altitude: An attempt to overcome the challenge

1AD-A2642601 p 337 N93-30894

EXOBIOLOGY

To the stars with the cytoskeleton? p 1 A93-11198 The current status and prospects in the study of cell p 38 A93-16001 physiology under microgravity Exobiology science objectives at a lunar base p 71 A93-17435

space flight activities NASA plans and opportunities --throughout the 1990s p 79 A93-20652 Can the adult skeleton recover lost bone? p 93 A93-20656 EXOSKELETONS SUBJECT INDEX

Cooperhabilitie planes - A A	Caracatata a sur un antico de la properior de	Effects of 60-Hz electric and magnetic fields on operant
Caenorhabditis elegans - A model system for space biology studies p 80 A93-20665	Space biology initiative program definition review. Trade	and social behavior and on neuroendoctrine system of
The life span of the biosphere revisited	study 3: Hardware miniaturization versus cost	•
	p 208 N93-23080	nonhuman primates
p 149 A93-21847	Space biology initiative program definition review. Trade	DE93-007677 p 207 N93-22913
Short-term microgravity to isolate graviperception in	study 6: Space Station Freedom/spacelab modules	Effects of space radiation on humoral and cellular
cells p 111 A93-21901	compatibility	immunity in rhesus monkeys
The possibility of life on Mars during a water-rich past	[EEI-89-236] p 209 N93-23081	[AD-A261808] p 246 N93-26259
p 196 A93-27887	Space biology initiative program definition review. Trade	Variations of time-to-incapacitation and
Influence of space-flight factors on growth of spirulina	study 2: Prototype utilization in the development of space	carboxyhemoglobin values in rats exposed to two carbon
p 199 A93-30441	biology hardware p 209 N93-23082	monoxide concentrations
Single particle effects, Biostack, and risk evaluation	•	[DOT/FAA/AM-93/7] p 274 N93-27152
Studies on the radiation risk from Galactic cosmic rays	Life in and from space p 237 N93-24373	Issues on human acceleration tolerance after
p 202 A93-32243	Gravity and root morphogenesis p 210 N93-24403	long-duration space flights
Water in the solar system and its role in exobiology;	Development of Arabidopsis thaliana grown under	[NASA-TM-104753] p 334 N93-29651
Proceedings of the European Geophysical Society General	microgravity conditions p 211 N93-24404	The chronic effects of jP-8 jet fuel exposure on the
Assembly, 26th, Wiesbaden, Germany, Apr. 22-26, 1991	Exobiology and terrestrial life p 237 N93-24405	lungs
	-	
p 268 A93-36551	Digest of Russian Space Life Sciences, issue 33	• • •
Cryoprotective properties of water in the earth	[NASA-CR-3922(39)] p 244 N93-25195	An assessment of peripheral nerve damage in the rat
cryolithosphere and its role in exobiology	Space biology research development	following non-freezing cold exposure: An
p 269 A93-36558	[NASA-CR-192830] p 244 N93-25242	electrophysiological and histopathological examination
Relevance of antarctic microbial ecosystems to	Aerospace medicine and biology: A continuing	[AD-A264293] p 331 N93-30818
exobiology p 355 A93-44877	bibliography with indexes (supplement 373)	Carbon monoxide exposure of subjects with documented
Human exposure to galactic cosmic rays in space	[NASA-SP-7011(373)] p 256 N93-26945	cardiac arrhythmias
p 410 A93-54887	Aerospace medicine and biology: A continuing	[PB93-179943] p 337 N93-30890
Aerospace medicine and biology: A continuing		EXTINCTION
bibliography with indexes (supplement 365)	bibliography with indexes (supplement 377)	Geography of end-Cretaceous marine bivalve
[NASA-SP-7011(365)] p 12 N93-10075	[NASA-SP-7011(377)] p 361 N93-31924	extinctions p 273 A93-41075
Aerospace medicine and biology: A continuing	EXOSKELETONS	EXTRACTION
bibliography with indexes (supplement 360)	Integration of advanced teleoperation technologies for	The identification and quantitation of triamterene in blood
[NASA-SP-7011(360)] p 12 N93-10076	control of space robots p 366 N93-32107	and urine from a fatal aircraft accident
Aerospace medicine and biology: A continuing	EXPERIMENT DESIGN	[AD-A254550] p 49 N93-12612
bibliography with indexes (supplement 364)	Biomedical engineering and space	• • • • • • • • • • • • • • • • • • • •
	p 103 A93-20015	Chemical characterization of some aqueous leachates
[NASA-SP-7011(364)] p 12 N93-10077	•	from crop residues in 'CELSS' p 115 N93-19399
Aerospace medicine and biology: A continuing	Study design for microgravity human physiology	EXTRASOLAR PLANETS
bibliography with indexes (supplement 366)	experiments p 118 A93-25208	Habitable zones around main sequence stars
[NASA-SP-7011(366)] p 12 N93-10079	Plant growth modeling at the JSC variable pressure	p 197 A93-28376
Aerospace medicine and biology: A continuing	growth chamber - An application of experimental design	EXTRATERRESTRIAL ENVIRONMENTS
bibliography with indexes (supplement 367)	[SAE PAPER 921356] p 307 A93-41515	Europa: Prospects for an ocean and exobiological
[NASA-SP-7011(367)] p 12 N93-10080	EXPERT SYSTEMS	implications p 113 N93-18552
Assessment of programs in space biology and	Design of a display system for a human pilot's	EXTRATERRESTRIAL INTELLIGENCE
medicine	supervisory tasks p 27 A93-11201	Wide-bandwidth high-resolution search for
[NASA-CR-190930] p 41 N93-13327		extraterrestrial intelligence
Aerospace medicine and biology: A continuing	Human-computer cooperative problem solving in	[NASA-CR-191807] p 110 N93-16709
bibliography with indexes (supplement 368)	satellite ground control p 188 A93-27163	SETI in Europe p 237 N93-23908
	A comparison of neural network and fuzzy clustering	
[NASA-SP-7011(368)] p 53 N93-14603	techniques in segmenting magnetic resonance images of	EXTRATERRESTRIAL LIFE
Aerospace medicine and biology: A continuing	the brain p 214 A93-31267	To the stars with the cytoskeleton? p 1 A93-11198
bibliography with indexes (supplement 369)	Agent-based pilot-vehicle interfaces - Concept and	Organic models of interstellar grains
[NASA-SP-7011(369)] p 53 N93-14731	prototype p 262 A93-34986	p 35 A93-11847
STS-40 Spacelab Life Sciences 1 (SLS-1): The first	Task allocation and automation in design and operation	The possibility of life on Mars during a water-rich past
dedicated spacelab life sciences mission	of man-machine systems p 348 A93-42842	p 196 A93-27887
[NASA-TM-108034] p 80 N93-15823	Real-time expert system interfaces, cognitive processes,	Habitable zones around main sequence stars
NASA/NSF Antarctic Science Working Group	and task performance - An empirical assessment	p 197 A93-28376
p 81 N93-16802	p 394 A93-52503	Preservation of biological information in thermal spring
Aerospace medicine and biology: A continuing	Intelligent fault management for the Space Station active	deposits - Developing a strategy for the search for fossil
bibliography with indexes (supplement 370)	thermal control system p 32 N93-11930	life on Mars p 197 A93-28377
[NASA-SP-7011(370)] p 121 N93-18108	Advanced satellite workstation: An integrated	Liquid water and the origin of life p 268 A93-36552
Exobiology in Solar System Exploration	workstation environment for operational support of satellite	Relevance of antarctic microbial ecosystems to
(NASA-SP-512) p 112 N93-18545	system planning and analysis p 33 N93-11941	exobiology p 355 A93-44877
Overview: Exobiology in solar system exploration	Automation of closed environments in space for human	Venus: A search for clues to early biological
p 112 N93-18546	comfort and safety	possibilities p 113 N93-18549
The solar system: Importance of research to the		Mars: A reassessment of its interest to biology
biological sciences p 113 N93-18547	[NASA-CR-192045] p 138 N93-17971	p 113 N93-18550
Europa: Prospects for an ocean and exobiological	The application of integrated knowledge-based systems	Europa: Prospects for an ocean and exobiological
	for the Biomedical Risk Assessment Intelligent Network	
implications p 113 N93-18552	(BRAIN) p 258 N93-25595	implications p 113 N93-18552
Titan p 114 N93-18553	Fuzzy neural network methodology applied to medical	SETI in Europe p 237 N93-23908
Exobiology: The NASA program p 114 N93-18561	diagnosis p 334 N93-29546	Life in and from space p 237 N93-24373
Investigation of wheat coleoptile response to phototropic	EXPIRATION	Exobiology and terrestrial life p 237 N93-24405
stimulations	Experimental study of volatile metabolites of human	Space biology research development
[NASA-CR-192157] p 114 N93-18608	body p 11 A93-13711	[NASA-CR-192830] p 244 N93-25242
Aerospace medicine and biology: A cumulative index	Maximal lung ventilation and forced expiration rate under	EXTRATERRESTRIAL RADIATION
to a continuing bibliography (supplement 371)	hyperbaria p 76 A93-18297	Space radiation health program plan
[NASA-SP-7011(371)] p 172 N93-20889	Respiration curves as an index of pilot workload	[NASA-TM-108036] p 123 N93-18375
Aerospace medicine and biology: A continuing	p 332 A93-45320	Radiological assessment for Space Station Freedom
bibliography with indexes (supplement 372)	EXPLOSIVES	[NASA-TM-104758] p 128 N93-20303
[NASA-SP-7011(372)] p 172 N93-21044	The challenge of biodetection for screening persons	Effects of space radiation on humoral and cellular
Space life sciences overview p 158 N93-21074	carrying explosives p 159 N93-21931	immunity in rhesus monkeys
Life sciences utilization of Space Station Freedom	Explosives search dogs p 159 N93-21933	[AD-A261808] p 246 N93-26259
p 205 N93-22622	Evaluation of personal cooling systems in conjunction	EXTRAVEHICULAR ACTIVITY
•	with explosive ordnance disposal suits	Human support for Mars exploration - Issues and
Life sciences recruitment objectives		approaches p 27 A93-12077
p 205 N93-22623	[AD-A262862] p 350 N93-29471	For space suits - The multifunction pressure
Gravitational Biology Facility on Space Station: Meeting	EXPOSURE	reducer-regulator of Intertechnique p 61 A93-15057
the needs of space biology p 206 N93-22625	Dermal exposure assessment: Principles and	
Space Biology Initiative. Trade Studies, volume 1	applications	Space telerobotic research and applications at Space
[NASA-CR-190989] p 207 N93-23068	[PB92-205665] p 12 N93-10438	Systems/Loral
Space biology initiative program definition review. Trade	Effectiveness of NASA 1032 and 1035 and Air Force	[AAS PAPER 91-046] p 62 A93-15588
study 5: Modification of existing hardware (COTS) versus	1030 and 1034 units in protection against cold water	K.E. Tsiolkovsky on the role of the human factor in the
	hypothermia	problem of space flight safety p 100 A93-18409
new hardware build cost analysis p 207 N93-23069	[AD-A255120] p 34 N93-12291	Problems of medical support during extravehicular
Space biology initiative program definition review. Trade	Analysis of retinal function following laser irradiation	activity during flights to Mars p 90 A93-18411
study 1: Automation costs versus crew utilization	[AD-A255649] p 52 N93-14163	Technology test results from an intelligent, free-flying
p 208 N93-23070	Effects of maglev-spectrum magnetic field exposure on	robot for crew and equipment retrieval in space
Space biology initiative program definition review. Trade	CEM T-lymphoblastoid human cell growth and	p 184 A93-27037
study 4: Design modularity and commonality	differentiation	Neutral buoyancy simulation of space telerobotics
p 208 N93-23071	[DE92-041134] p 96 N93-16552	operations p 185 A93-27038
Space Biology Initiative. Trade Studies, volume 2	Improved inhalation technology for setting safe exposure	An overview of the dynamic predictive architecture for
[NASA-CR-190990] p 208 N93-23079	levels for workplace chemicals p 174 N93-22164	robotic assistants p 191 A93-29112

SUBJECT INDEX **FATIGUE (BIOLOGY)**

Person-like intelligent systems architectures for robotic EYE (ANATOMY) Attitude awareness enhancements for the F-16 head-up shared control and automated operations Colour is what the eye sees best p 159 A93-26245 display p 191 A93-29113 Melatonin and its precursors in Y79 human AD-A260280 | p 236 N93-24168 flight An experiment in vision based autonomous grasping retinoblastoma cells - Effect of sodium butyrate Head-steered sensor test results and p 214 A93-32120 p 318 N93-28859 within a reduced gravity environment implications Human low vision image warping - Channel matching n 193 A93-29137 F-18 AIRCRAFT Robot free-flyers in space extravehicular activity considerations D 231 A93-32444 Predictive nosepointing and flightpath displays for p 193 A93-29141 Analysis of factors influencing contrast vision in normal p 229 A93-30071 Rationale for a hyperbanic treatment capability at a Lunar p 332 A93-44848 Station Eve movements and visual information processing p 213 A93-30286 Electrically modifiable nonvolatile SONOS synapses for The effects of a reduced pressure scenario on the N93-10278 IAD-A2501981 p 24 electronic neural networks Columbus APM environmental control system The prevalence of artificial lens implants in the civil IAD-A2583181 p 122 N93-18252 ISAE PAPER 9212471 p 298 A93-41418 airman population Investigation into the common mode rejection ratio of [DOT/FAA/AM-92/14] p 253 N93-25214 A feasibility study of hand kinematics for EVA analysis the physiological signal conditioner circuit using magnetic resonance imaging A fiber optic probe for the detection of cataracts p 245 N93-26073 p 298 A93-41423 p 254 N93-25593 ISAF PAPER 9212531 Development of a test protocol for evaluating EVA glove Visual perception of elevation Correlation of results of radiant heat test and convective p 259 N93-26307 [AD-A261394] heat test for three layered protective clothing Discomfort glare from high-intensity ISAF PAPER 9212541 discharge p 298 A93-41424 p 194 N93-21161 headlamps: Effects of context and experience Power assist EVA glove development PB93-1747201 EVA Glove Research Team p 336 N93-30659 |SAE PAPER 921255| p 299 [NASA-CR-193014] p 313 N93-27847 Development of the Hermes EVA Space Suit Glove EYE DISEASES [SAE PAPER 921256] The development of a visual color checkerboard Power assist EVA glove development p 299 A93-41426 p 314 N93-27850 Development of a regenerable metal oxide sheet matrix p 30 A93-13723 CO2 removal system Design of a reading test for low vision image warping FACE (ANATOMY) ISAE PAPER 9212981 p 400 A93-53025 Methods for characterizing the human head for the p 302 A93-41463 Portable life support system regenerative carbon dioxide **EYE DOMINANCE** design of helmets The effects of superimposing symbology on a simulated p 353 N93-29889 and water vapor removal by metal oxide absorbents IAD-A2638751 preprototype hardware development and testing night vision goggle display FACTOR ANALYSIS ISAE PAPER 9212991 p 303 A93-41464 140-42634581 n 354 N93-30590 Development of the Personnel-based System Evaluation Metabolic responses to simulated extravehicular **EYE MOVEMENTS** Aid (PER-SEVAL) performance shaping functions The perception of heading during eye movements p 26 N93-11779 IAD-A2528201 [SAE PAPER 921303] p 282 A93-41468 n 99 A93-20692 Crucial role of detailed function, task, timeline, link, and Performance evaluation of candidate space suit Linear vestibuloocular reflex during motion along axes human vulnerability analyses in HRA elements for the next generation orbital EMU between nasooccipital and interaural p 321 N93-28942 IDE93-0019231 p 203 A93-32773 ISAE PAPER 9213441 A93-41503 p 305 The cube rotation test: A computer generated process Response characteristics of the human torsional Mitigation of dust contamination during EVA operations for acquisition of mental spatial manipulator capability p 215 A93-32774 p 345 A93-42107 vestibuloocular reflex on the moon and Mars p 344 N93-31237 EVA operational guidelines and considerations for use Visual search in virtual environments FAILURE ANALYSIS p 233 A93-33450 during the Space Station Freedom design review Response to automated function failure cue - An p 345 Dynamic analysis of ocular torsion in parabolic flight A93-42119 operational measure of complacency p 386 A93-52405 Pressure suit requirements for moon and Mars EVA's using video-oculography p 176 A93-27147 Spectral motion produces an auditory after-effect p 346 A93-42123 Suited for spacewalking: A teacher's guide with Shape optimization of tibial prosthesis components n 405 A93-55579 INASA-CR-191123] p 246 N93-27085 Eve movements and visual information processing p 24 N93-10278 FAILURE MODES NASA-EP-2791 p 65 N93-13692 IAD-A2501981 A comparison of hand grasp breakaway strengths and Visual psychophysics of egomotion Errors in aviation maintenance - Taxonomy and p 26 N93-11488 p 175 A93-27135 bare-handed grip strengths of the astronauts, SML 3 test IAD-A2483491 Ocular attention-sensing interface system subjects, and the subjects from the general population Failure mode workload theory and planning p 349 A93-42848 p 65 N93-13450 INASA-TP-32861 INASA-CR-190884 I p 96 N93-16619 Design of a reusable kinetic energy absorber for an Enhanced performance using physiological feedback **FALSE ALARMS** astronaut safety tether to be used during extravehicular IAD-A2580061 p 130 N93-17816 False cue detection thresholds in flight simulation p 407 A93-52674 activities on the Space Station Role of orientation reference selection in motion | AIAA PAPER 93-3578 | [NASA-CR-192015] n 139 N93-17973 FARM CROPS Mission and Safety Critical (MASC): An EVACS INASA-CR-1919121 p 124 N93-18596 Resource capture by single leaves simulation with nested transactions Eye movements and visual information processing LDE92-0158471 p.5 N93-10461 p 225 INASA-CR-1922951 N93-24297 Techniques for optimal crop selection in a controlled p 149 N93-20314 TALON and CRADLE: Systems for the rescue of Eye-head-arm coordination and spinal reflexes in ecological life support system p 236 N93-24362 weightlessness tumbling spacecraft and astronauts p 196 N93-22268 I NASA-TM-103950 I p 33 N93-12018 Investigation of the effects of Extra Vehicular Activity Optovert: An AustroMir-1991 experiment. Orientational Chemical characterization of some aqueous leachates p 115 N93-19399 (EVA) and Launch and Entry (LES) gloves on performance p 266 N93-26061 p 226 N93-24366 from crop residues in 'CELSS' effects from ontokinetic stimulation. Visual perception of elevation A proposal to demonstrate production of salad crops p 259 N93-26307 IAD-A2613941 The role of pyridoxine as a countermeasure for in-flight in the Space Station Mockup Facility with particular Coordinated action in 3-D space loss of lean body mass p 255 N93-26068 attention to space, energy, and labor constraints p 261 N93-26449 [NASA-CR-192815] p 209 N93-23169 Extravehicular activity system p 312 N93-27787 NASA supporting studies for microgravity research on Analysis of the lettuce data from the variable pressure EVA/manned systems p 312 N93-27789 Evolving EVA system capability for the evolving Space tation Freedom requirements p 312 N93-27791 eye movements growth chamber at NASA Johnson Space Center: A three-stage nested design model p 245 N93-26069 [NASA-CR-193233] p 285 N93-29041 Station Freedom requirements EVA and telerobot interaction Head mounted displays for virtual reality Continued results of the seeds in space experiment p 312 N93-27792 p 322 N93-29340 p 330 N93-29703 [AD-A263498] Extravehicular activity technology discipline p 314 N93-27859 A tutorial on exit pupils and eye rotation with virtual image A vision system planner for increasing the autonomy The design of mechanically compatible tasteners for of the Extravehicular Activity Helper/Retriever p 333 N93-29400 1AD-A2623991 p 253 N93-25569 human mandible reconstruction [NASA-CR-193301] p 365 N93-31844 FATIGUE (BIOLOGY) A simple computational model of center-surround EXTRAVEHICULAR MOBILITY UNITS receptive fields in the retina Operation Everest II · Metabolic and hormonal Performance evaluation of candidate space suit elements for the next generation orbital EMU responses to incremental exercise to exhaustion IAD-A2647231 p 336 N93-30515 p 115 A93-21685 An algorithm for simple and complex feature detection: p 305 A93-41503 ISAE PAPER 9213441 Some biochemical and functional characteristics of body From retina to primary visual cortex ASDA - Advanced Suit Design Analyzer computer state during multihour operator activity under extreme IAD-A2643061 p 337 N93-30897 p 161 A93-27686 EYE PROTECTION [SAE PAPER 921381] p 308 A93-41539 Muscle mitochondrial density after exhaustive exercise p 181 A93-26885 Designing the right visor Pressure suit requirements for moon and Mars EVA's in dogs - Prolonged restricted activity and retraining Effects of laser glare on visual search performance p 242 A93-35498 p 346 A93-42123 p 180 A93-28158 Evolution of Space Station EMU PLSS technology Evaluation of zolpidem on alertness and psychomotor p 146 N93-19770 recommendations Multi-function visor abilities among aviation ground personnel and pilots p 312 N93-27790 p 401 A93-55163 Evolving EVA system capability for the evolving Space Station Freedom requirements Hypobaric hypoxia as a correction and rehabilitation p 312 N93-27791 p 402 A93-55332 Simplified Aid For Crew Rescue (SAFR) method in aviation medicine p 313 N93-27793 Effects of dextromethamphetamine on subjective Extravehicular activity technology discipline fatique p 314 N93-27859 Habitable zones around main sequence stars [AD-A258252] p 119 N93-17822 p 197 A93-28376 EXTREMELY LOW FREQUENCIES Simulated sustained flight operations and performance. The effects of exposure to 50 mT ELF magnetic fields Part 1: Effects of fatigue F-16 AIRCRAFT Flight director information and pilot performance in p 266 N93-25859 for 96 h on rabbit EEG A93-13712 [AD-A261012] p 4 Gene transcription and electromagnetic fields instrument approaches Subjective mood and fatigue of C-141 crew during Desert

p 131 N93-17857

Storm

[DE93-010854]

p 276 N93-28848

IAD-A2581861

p 370 N93-32264

Digital flight data as a measure of pilot performance associated with fatigue from continuous operations during the Persian Gulf conflict p 371 N93-32268 FATIGUE (MATERIALS)

Training, muscle fatigue and stress fractures [AD-A255277] p 54 p 54 N93-15006 **FATTY ACIDS**

The effects of growth temperature on the methyl sterol and phospholipid fatty acid composition of Methylococcus

capsulatus (Bath) p 37 A93-14121 The effects of growth temperature on the methyl sterol and phospholipid fatty acid composition of Methylococcus capsulatus (Bath) p 153 A93-28691

FEASIBILITY ANALYSIS

A feasibility study of hand kinematics for EVA analysis using magnetic resonance imaging

|SAE PAPER 921253| p 298 A93-41423 Mental workload assessment in the cockpit: Feasibility of using electrophysiological measurements, phase 1 | AD-A254138 | p 25 N93-10662 reduction feasibility KC-135 crew demonstration simulation study. Volume 3: Test and evaluation

[AD-A253931] p 30 N93-10713 Space biology initiative program definition review. Trade study 6: Space Station Freedom/spacelab modules compatibility

p 209 N93-23081 LEEI-89-2361 A feasibility study of hand kinematics for EVA analysis using magnetic resonance imaging p 313 N93-27848 FECES

Distribution of human waste samples in relation to sizing waste processing in space p 68 N93-14001

FEEDBACK Enhanced performance using physiological feedback | AD-A258006 | p 130 N93-17816 Coordinated action in 3-D space

[AD-A261418] p 261 N93-26449 Integration of advanced teleoperation technologies for p 366 N93-32107 control of space robots

FEEDBACK CONTROL

Incorporating display limitations in a model-based analysis of flight simulator fidelity | AIAA PAPER 93-0859 | p 137 A93-24923

On the control of a class of flexible manipulators using feedback linearization approach p 231 A93-31533 An update on the readiness of vapor compression distillation for spacecraft wastewater processing

ISAE PAPER 9211141 p 290 A93-41307 The effects of field of view size on the control of roll motion p 349 A93-43722 Autogenic-feedback training - A treatment for motion p 404 A93-55946

and space sickness Coordinated action in 3-D space

[AD-A249830] p 31 N93-10994 Design, construction, and control of a two degree-of-freedom electric direct-drive human power p 65 N93-13486

FEET (ANATOMY)

Anthropometry of the foot and lower leg of U.S. Army soldiers: Fort Jackson, SC IAD-A261405| p 268 N93-26404

The next generation female in cockpit: Do we need a new approach to cockpit resource management (CRM)?

p 143 N93-19704 Effect of aerobic capacity on Lower Body Negative Pressure (LBNP) tolerance in females

[NASA-TP-3298] p 128 N93-20318 Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988

LAD-A260869 I n 265 N93-25628 An annotated bibliography of research involving women, conducted at the US Army Research Institute of Environmental Medicine

AD-A2654971 p 360 N93-31917

FEMUR

Effects of vitamin D and phosphorus level in diet on bone, skeletal muscle and kidney in suspended rats p 77 A93-19994

Protection of Chinese medicine and low frequency magnetic field against suspension induced bone loss in n 327 A93-44844 rat Optimal design of composite hip implants using NASA p 174 N93-22188

FERMENTATION

A microfermentation test for the rapid identification of p 156 A93-28733

FERRIC IONS

Accelerated heavy particles and the lens. VIII Comparisons between the effects of acute low doses of iron ions (190 keV/microns) and argon ions (88 keV/microns) p 216 A93-32784

FERTILITY

Melatonin in human preovulatory follicular fluid p 215 A93-32474

FERTILIZATION

Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 375 A93-49179 **FERTILIZERS**

Development of the nitrogen fixation system for

p 297 A93-41411 | SAE PAPER 921238 |

Active synthetic soil INASA-CASE-MSC-21954-1-NP p 114 N93-19054

FETUSES Organization of the human circadian system

AD-A2646751 p 361 N93-32015

FEVER

Studies of safety, infectivity, and immunogenicity of a new Temperature Sensitive (TS) 51-1 strain of S. typhi as a new live oral typhoid fever vaccine candidate p 19 N93-11306

FIBER COMPOSITES

Optimal design of composite hip implants using NASA technology p 174 N93-22188 Finite element analysis of a composite artificial ankle p 174 N93-22189

FIBER OPTICS

Simulator sickness experience in simulators equipped with fiber optic helmet mounted display systems LAIAA PAPER 92-41351 p 136 A93-24490 Helmet-mounted systems technology planning for the p 227 A93-30052

A fiber optic probe for the detection of cataracts p 254 N93-25593

FIBROSIS

Retroperitoneal fibrosis as a cause of hypertension in an aviator - A case report p 212 A93-30284 FIELD OF VIEW

Visual scene effects on the somatogravic illusion

p 88 A93-18035 n 181 A93-26885 Designing the right visor Helmet-mounted area of interest p 228 A93-30060 Low-cost color LCD helmet display p 228 A93-30062

Visual illusions and other effects with night vision p 230 A93-30072 Studies of the field-of-view resolution tradeoff in virtual-reality systems p 232 A93-33443

The effect of geometric field of view and tunnel design for perspective flight-path displays |SAE PAPER 921131| p 291 A93-41319

The effects of field of view size on the control of roll p 349 A93-43722 motion In-simulator assessment of trade-offs arising from

mixture of color cuing and monocular, binoptic, and stereopsis cuing information p 407 A93-52916 In-flight field-of-view with ANVIS

p 235 N93-23992 LAD-A259905 I Evaluation of lens distortion errors in video-based motion analysis

[NASA-TP-3266] p 258 N93-25736 Interpupillary and vertex distance effects on field-of-view and acuity with ANVIS [AD-A261259]

p 268 N93-26265 Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays

p 311 N93-27177 Effects of area-of-interest display characteristics of visual search performance and head movements in simulated low-level flight

I AD-A264661 I p 341 N93-30542

FIGHTER AIRCRAFT

Training analysis for the European Fighter Aircraft - 'A p 98 A93-18769 vovage into the unknown' The advent of helmet-mounted devices in the combat aircraft cockpit - An operator's viewpoint

p 227 A93-30056 A cognitive classification of pilot performance in air n 347 A93-42814

Flight leads and crisis decision-making

p 404 A93-55161 The human-electronic crew: Is the team maturing? The GAF/RAF/USAF Workshop Joint Human-Electronic Crew Teamwork

p 69 N93-14520 LAD-A2561921 Human factors problems for aircrew-aircraft interfaces: p 144 N93-19759 Where should we focus our efforts? p 145 N93-19766 Flight above a virtual world Management of avionics data in the cockpit

p 147 N93-19777 The integration of advanced cockpit and systems p 147 N93-19779 design

Physiological indices of mental workload p 260 N93-26391 IAD-A2616921

Specification of adaptive aiding systems p 314 N93-27927 LAD-A2630711 Symbology for head up and head down applications for highly agile fighter aircraft: To improve spatial awareness,

trajectory control, and unusual attitude recovery, part 1 p 318 N93-28857

The physiological limitations of man in the high G p 319 N93-28861 environment Requirements for pilot assistance in a thrust-vectoring p 320 N93-28870 combat aircraft

FILTRATION

The application of filtration technology within the Water Processor on board Space Station Freedom p 300 A93-41440 [SAE PAPER 921270]

Higher capillary filtration rate in the calves of endurance-trained subjects during orthostatic stress p 401 A93-55165

Evaluation and optimization of a flexible filtration system for respiratory protection system 21

[AD-A262467] p 284 N93-28758 FINGERS

Evaluation of finger motor reaction in flyer when handling throttle and stick p 29 A93-13539 Effect of food intake on skin vasomotor responses to

head-up tilt in humans p 379 A93-49180 Evaluation of hole sizes in structures requiring EVA services as a means to prevent gloved-hand finger

entrapment INASA-TM-1047671 p 234 N93-23129 A feasibility study of hand kinematics for EVA analysis using magnetic resonance imaging p 313 N93-27848

Power assist EVA glove development p 314 N93-27850

Prevention of cumulative trauma disorders p 338 N93-31138 [PB93-188332]

FINITE ELEMENT METHOD

Optimal design of composite hip implants using NASA p 174 N93-22188 technology Finite element analysis of a composite artificial ankle p 174 N93-22189

The design of mechanically compatible fasteners for human mandible reconstruction p 253 N93-25569 Shape optimization of tibial prosthesis components [NASA-CR-191123] p 246 N93-27085

FIRE CONTROL

Increased fire and toxic contaminant detection responsibility by use of distributed, aspirating sensors p 311 N93-27722

Pilot decision aiding for weapon delivery: A novel approach to fire control cueing using parallel computing p 317 N93-28853

results Head-steered sensor flight test p 318 N93-28859 implications

FIRE EXTINGUISHERS The acute inhalation toxicity of pyrolysis products of

halon 1301 [AD-A260874] p 254 N93-25629

FIRES Fires on board aircraft: Toxicological risk in flight

p 126 N93-19694 FIXED WINGS

USAF/USN fixed wing night vision - The mission p 227 A93-30055 Evaluation of Night Vision Goggles (NVG) for maritime

search and rescue [AD-A257704] p 107 N93-17697

FLAGELLATA

Swimming behavior of the unicellular flagellate, Euglena gracilis, in simulated and real microgravity

p 151 A93-26549 FLAME RETARDANTS

Correlation of results of radiant heat test and convective heat test for three layered protective clothing

p 194 N93-21161

FLASH

Involuntary attentional capture by abrupt onsets p 97 A93-17974

Conspicuity of aids to navigation. Part 1: Temporal patterns for flashing lights [AD-A264626] p 341 N93-30426

FLEXIBLE SPACECRAFT

Centralized, decentralized, and independent control of a flexible manipulator on a flexible base

p 231 A93-31517

On the control of a class of flexible manipulators using feedback linearization approach p 231 A93-31533

FLIGHT ALTITUDE

Flight-path estimation in passive low-altitude flight by p 223 A93-32004 visual cues Comparisons of molecular sieve oxygen concentrators

for potential medical use aboard commercial aircraft [AD-A253648] p 31 N93-11279

FLIGHT CHARACTERISTICS

The relationship between computer scoring and safety-pilot grading of flight performance IAD-A2562451 p 58 N93-14600

FLIGHT CLOTHING

Suction-cup shoes for astronauts - A new method of foot restraint p 62 A93-17072 Flight helmet weight, +Gz forces, and neck muscle

p 136 A93-24046

SUBJECT INDEX FLIGHT INSTRUMENTS

SUBJECT INDEX		FLIGHT INSTRUMENTS
Goggles emergency release apparatus	A method for predicting the work load of a flight engineer	Predicting radiation induced performance decrements
[AD-D015685] p 351 N93-29607	engaged in counteracting failures of functional systems	of AH-1 helicopter crews. Volume 2: Evaluation of modeling
CATS EYES adjustment procedures	of a transport aircraft p 364 A93-45688	and simulation techniques for predicting radiation induced
[AD-A264069] p 353 N93-29924	Flight crew sleep during multiple layover polar flights	performance decrements
FLIGHT CONTROL The USAF Test Pilot School flight control systems	p 380 A93-49226 Coccidioidomycosis - A persistent threat to deployed	[AD-A262872] p 351 N93-29484
curriculum	populations p 380 A93-49228	Field test of a computer-driven tool to measure psychological characteristics of aircrew
[AIAA PAPER 92-4067] p 24 A93-11253	Ab initio pilot training process more efficient than	[AD-A264484] p 341 N93-30425
Evaluation of the efficiency of the pilot's control activity	traditional methods p 387 A93-49276	Helicopter simulation: An aircrew training and
in a flight simulator p 100 A93-18347	Incidence of cardiac dysrhythmias occurring during centrifuge training p 384 A93-52297	qualification perspective p 342 N93-30676
Active control versus passive observation in a simulated flight task p 179 A93-27196	Mortality experience of cockpit crewmembers from	Abridged procedural guide to aircrew anthropometric
Estimation of the number of operators and their	Japan Airlines p 385 A93-52306	accommodation assessment [AD-A265220] p 366 N93-32006
efficiency in flight vehicle control p 193 A93-29696	Adaptation to nauseogenic motion stimuli and its	Application and validation of workload assessment
Compatibility and consistency in display-control systems	application in the treatment of airsickness p 404 A93-55947	techniques
- Implications for aircraft decision aid design p 230 A93-30454	Operator workload predictions for the revised AH-64A	[AD-A264575] p 366 N93-32012
Combat Automation for Airborne Weapon Systems:	workload prediction model, volume 1	Nutrition, Metabolic Disorders and Lifestyle of Aircrew
Man/Machine Interface Trends and Technologies	[AD-A254198] p 30 N93-10261	[AGARD-CP-533] p 367 N93-32240
[AGARD-CP-520] p 317 N93-28850	KC-135 crew reduction feasibility demonstration	Nutrition for a typical MAC crew during Desert Storm p 368 N93-32245
Virtual interface applications for airborne weapons systems p 318 N93-28858	simulation study. Volume 3: Test and evaluation [AD-A253931] p 30 N93-10713	Changes in food and energy intake in military aircrew
Head-steered sensor flight test results and	Relating flying hours to aircrew performance: Evidence	p 368 N93-32246
implications p 318 N93-28859	for attack and transport missions	Lipodystrophies in the French military flight crew
Overview of cockpit technology research and	[AD-A253988] p 25 N93-10719	p 362 N93-32249
development programs for improvement of the	Asthma in aircrew: Assessment, treatment and disposition p 21 N93-11315	Blood lipids in aircrew recruits and in RAF aviators
man/machine interface: Review of the AGARD AVP Symposium held in Madrid, May 1992	An evaluation of crew coordination and performance	p 362 N93-32251 The effects of an antijet lag diet p 370 N93-32263
p 320 N93-28872	during a simulated UH-60 helicopter mission	Subjective mood and fatigue of C-141 crew during Desert
An evaluation of B-1B pilot performance during simulated	[AD-A254984] p 35 N93-12509	Storm p 370 N93-32264
instrument approaches with and without status	Operator workload predictions for the revised AH-64A	C-141 aircrew sleep and fatigue during the Persian Gulf
information [AD-A263874] p 353 N93-29888	workload prediction model. Volume 2: Appendixes A	conflict p 371 N93-32265
[AD-A263874] p 353 N93-29888 Handedness and motor programming effects of manual	through H AD-A254939 p 63 N93-12545	Digital flight data as a measure of pilot performance associated with fatigue from continuous operations during
control and movement	Human factors research in aircrew performance and	the Persian Gulf conflict p 371 N93-32268
[AD-A264022] p 340 N93-30027	training: 1986-1991	Effects of caffeine on mental performance and mood:
FLIGHT CREWS	[AD-A254455] p 63 N93-12609	Implications for aircrew members p 372 N93-32269
Heat strain during at-sea helicopter operations and the effect of passive microclimate cooling p 7 A93-10330	Thermal stress in US Air Force operations	FLIGHT FATIGUE Working hours and fatigue of Japanese flight attendants
Documentation of activity and rest of a U.S. National	[AD-A255785] p 51 N93-14027	(FA) p 171 A93-28762
Guard attack helicopter battalion p 9 A93-10338	The human-electronic crew: Is the team maturing? The 2nd Joint GAF/RAF/USAF Workshop on	'And we were tired' fatigue and aircrew errors
C.R.M. training for the advanced flight deck	Human-Electronic Crew Teamwork	p 264 A93-37070
p 24 A93-13410	[AD-A256192] p 69 N93-14520	Subjective fatigue in A-6, F-14, and F/A-18 aircrews
Crew factors and their psychological problems in long term space flight p 57 A93-17431	Development of measures of crew coordination	during operations Desert Shield and Storm [AD-A259243] p 171 N93-20580
K.E. Tsiolkovsky on the role of the human factor in the	AD-A255384 p 70 N93-14651	C-141 aircrew sleep and fatigue during the Persian Gulf
problem of space flight safety p 100 A93-18409	Operational use of contact lenses by military aircrew	conflict p 371 N93-32265
The efficiency of a prophylactic-rehabilitational	[AGARD-AG-334] p 95 N93-15824	FLIGHT FITNESS
treatment of civil-aviation flight crews p 91 A93-18415 Training analysis for the European Fighter Aircraft - 'A	Workshop on Aeronautical Decision Making (ADM). Volume 1: Executive summary	The prospects for the improvement of medical monitoring of the health of flight personnel in a military
voyage into the unknown' p 98 A93-18769	[AD-A257016] p 99 N93-16189	unit personner in a military
Individual differences in airline captains' personalities,	Effects of dextromethamphetamine on subjective	Prospective assessment of stereoscopic visual status
communication strategies, and crew performance	fatigue	and USAF pilot training attrition p 116 A93-24039
p 177 A93-27175 Networked simulation for team training of Space Station	[AD-A258252] p 119 N93-17822	Age and length of service of flight personnel in the case of chronic diseases p 248 A93-35227
astronauts, ground controllers, and scientists - A training	The detection of lateral motion by US Navy jet pilots [AD-A258115] p 120 N93-17896	Effect of stays at medium-mountain altitude on the
and development environment p 179 A93-27188	An analysis of a sustained flight operation training	maintenance of the good health and high physical work
Electroencephalogram epileptiform abnormalities in	mission in Navy attack aircraft	capacity of cosmonauts over a prolonged period of time
candidates for aircrew training p 170 A93-28757	[AD-A258199] p 131 N93-18205	p 250 A93-35255
Working hours and fatigue of Japanese flight attendants (FA) p 171 A93-28762	A computer-based visual analog scale	Alcoholism and treatment in airline aviators - One company's results p 257 A93-35499
Age, circadian rhythms, and sleep loss in flight crews	[AD-A258152] p 122 N93-18280	New technology for the analysis of the results of an
p 211 A93-30276	The effect of combat on the work/rest schedules and fatigue of A-6 and F-14 aviators during Operation Desert	ultrasound experiment performed in aviation-medicine
Multicultural factors in the space environment - Results	Shield/Storm	medical examination p 279 A93-40774
of an international shuttle crew debrief p 222 A93-30277	[AD-A258146] p 122 N93-18292	tncidence of cardiac dysrhythmias occurring during centrifuge training p 384 A93-52297
Treatment efficacy of intramuscular promethazine for	Using constraint satisfaction networks to study aircrew	Risk assessment and clinical aeromedical
Space Motion Sickness p 212 A93-30283	selection for advanced cockpits	decision-making p 385 A93-52305
Neurobehavioral test in civil aviation flight personnel	[AD-A258151] p 140 N93-18293	FLIGHT HAZARDS
p 223 A93-30443 On cockpit (crew) resource management	The effect of combat on aircrew subjective readiness and LSO grades during Operation Desert Shield/Storm	Interplanetary crew exposure estimates for galactic cosmic rays p 87 A93-17975
p 223 A93-31490	[AD-A258156] p 132 N93-18294	cosmic rays p 87 A93-17975 Safety concerns as a factor in pilot desire to change
Information management problems and their influence	A study of illness related lost time in transport aircraft	aircraft p 129 A93-24040
on cockpit equipment architecture of transport aircraft	crewmembers	Flight director information and pilot performance in
p 223 A93-31491	[AD-A258193] p 132 N93-18298	instrument approaches
Radiation conditions onboard passenger aircraft p 249 A93-35230	Medical evaluation of spatial disorientation mishaps	AD-A258186 p 131 N93-17857 FLIGHT INSTRUMENTS
Drugs for sustaining the work capacity of aircraft	p 134 N93-19703	Human factors on advanced flight decks; Proceedings
personnel during extreme emotional stress	Advanced Aircraft Interfaces: The Machine Side of the Man-Machine Interface	of the Conference, London, United Kingdom, Mar. 14,
p 253 A93-36745	[AGARD-CP-521] p 144 N93-19757	1991
'And we were tired' fatigue and aircrew errors	Human factors problems for aircrew-aircraft interfaces:	ISBN 0-903409-85-2 p 29 A93-13408
p 264 A93-37070 Human factors problems for aircrew-aircraft interfaces	Where should we focus our efforts? p 144 N93-19759	C.R.M. training for the advanced flight deck p 24 A93-13410
Where should we focus our efforts?	Nutrition and hydration status of aircrew members	Keeping the pilot in the loop p 29 A93-13413
p 264 A93-37300	consuming the food packet, survival, general purpose,	Up/down in (im)possible flight attitude indicators - Some
Barotrauma in Boeing 737 cabin crew	improved during a simulated survival scenario [AD-A258744] p 128 N93-20384	effects of colour, shape and pattern p 185 A93-27128
p 278 A93-39706	Subjective fatigue in A-6, F-14, and F/A-18 aircrews	The effect of roll-stabilized sensor information on pilot performance p 175 A93-27130
New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine	during operations Desert Shield and Storm	performance p 175 A93-27130 The development and use of a generic nonnormal
medical examination p 279 A93-40774	[AD-A259243] p 171 N93-20580	checklist with applications in ab initio and Introductory
Identification of hazardous awareness states in	Evaluation of two microclimate cooling air vests on a	Advanced Qualification Programs p 180 A93-27456
monitoring environments	heated mannequin [AD-A259410] p 194 N93-21269	Virtual landings developing Enhanced Vision Systems
[SAE PAPER 921136] p 287 A93-41324 Crew Health Care Systems installations for Space	Simulated sustained flight operations and performance.	for VFR p 410 A93-54868 Flight director information and pilot performance in
Station Freedom	Part 1: Effects of fatigue	instrument approaches
[SAE PAPER 921249] p 298 A93-41420	[AD-A261012] p 266 N93-25859	[AD-A258186] p 131 N93-17857

FLIGHT MANAGEMENT SYSTEMS The active-matrix LC head-down display (AM-LCD): Operational experience and growth potential p 148 N93-19782 Pilot intent and error recognition as part of a knowledge based cockpit assistant p 318 N93-28855 FLIGHT MANAGEMENT SYSTEMS Design of a display system for a human pilot's supervisory tasks p 27 A93-11201 Airline training for advanced technology cockpits p 24 A93-13411 Advanced civil airliner cockpit research at RAE p 29 A93-13416 **Bedford** Pilot interaction with cockpit automation - Operational experiences with the Flight Management System p 189 A93-27455 **FLIGHT NURSES** Living and working in space - Evolution of nursing in a new environment p 166 A93-28710 The overview effect - The impact of space exploration on the evolution of nursing science p 155 A93-28722 FLIGHT OPERATIONS An analysis of a sustained flight operation training mission in Navy attack aircraft [AD-A258199] p 131 N93-18205 Effects of medium blood alcohol levels on pilots' performance in the Sea King Simulator MK-41 p 125 N93-19683 Simulated sustained flight operations and performance. Part 1: Effects of fatigue [AD-A261012] p 266 N93-25859 FLIGHT PATHS The effects of head and sensor movement on flight profiles during simulated dive bombing p 185 A93-27131 Predictive nosepointing and flightpath displays for p 229 A93-30071 air-to-air combat Flight-path estimation in passive low-altitude flight by visual cues p 223 A93-32004 The effect of geometric field of view and tunnel design for perspective flight-path displays [SAE PAPER 921131] p 291 A93-41319 Symbology for head up and head down applications for highly agile fighter aircraft: To improve spatial awareness, trajectory control, and unusual attitude recovery, part 1 p 318 N93-28857 FLIGHT PLANS Pilot intent and error recognition as part of a knowledge p 318 N93-28855 based cockpit assistant FLIGHT RECORDERS Digital flight data as a measure of pilot performance associated with fatigue from continuous operations during the Persian Gulf conflict p 371 N93-32268 FLIGHT SAFETY

Fractures of the vertebral column after ejection

p 46 A93-15575 K.E. Tsiolkovsky on the role of the human factor in the problem of space flight safety p 100 A93-18409 Approaches to solving the problem of decompression safety of cosmonauts on their flights to Mars

p 90 A93-18410 An analytical study of the effects of age and experience on flight safety p 176 A93-27158 Mishap trends and cause factors in naval aviation - A review of Naval Safety Center data, 1986-90

p 405 A93-55166 Can injury scoring techniques provide additional information for crash investigators? p 125 N93-19663 Occupant simulation as an aspect of flight safety p 142 N93-19665 Disorientation and flight safety: A survey of UK Army p 133 N93-19680

aircrew Significance of histological postmortem findings in pilots killed in military and civil aircraft accidents in Germany (West): A 25-year-review p 126 N93-19697 Aircraft accident injuries in the Hellenic Air Force in the

p 126 N93-19698 Study of the spectrum of power of cardiac rhythm during tasks relating to the safety of the control of an apparatus p 127 N93-19707 apparatus

Gremlins: A dozen hazardous thought and behavior patterns as risk factors p 134 N93-19709 Human factors and the safety of flights: The importance

p 371 N93-32267 of the management of sleep FLIGHT SIMULATION

Simulation and flight test evaluation of head-up-display guidance for Harrier approach transitions p 28 A93-13331 [AIAA PAPER 92-4233]

The physiological consequences of simulated helicopter flight in NBC protective equipment p 117 A93-24049 The effects of head and sensor movement on flight profiles during simulated dive bombing

o 185 A93-27131

Workload or situational awareness? TLX vs. SART for aerospace systems design evaluation --- Task Load p 175 A93-27139 Index

Testing a subjective metric of situation awareness p 178 A93-27183

Spatial orientation and dynamics in virtual reality systems Lessons from flight simulation p 178 A93-27185 Multidimensional scaling analysis of terrain features relevant for simulating low-altitude flight

p 188 A93-27186 Active control versus passive observation in a simulated p 179 A93-27196 flight task

The effect of low blood alcohol levels on pilot performance in a series of simulated approach and landing p 179 A93-27453 trials

Rated performance, cardiovascular and quantitative EEG parameters during simulated instrument flight under p 165 A93-28708 the effect of terfenadine

The advent of helmet-mounted devices in the combat aircraft cockpit - An operator's viewpoint

p 227 A93-30056 Helmet Mounted Display symbology integration p 263 A93-35914 research

Performance consequences of automation-induced p 286 A93-39571 'complacency' Increasing hits and reducing misses in CRM/LOS Guidelines for simulator scenarios scenario p 286 A93-39575

development A comparison of two scoring procedures with the NASA task load index in a simulated flight task

p 349 A93-42849 Acoustical and vibratory stimuli interdependencies and their applications in simulation and cue synchronization I AIAA PAPER 93-35621 p 406 A comparative evaluation of three take-off performance

monitor display types

[AIAA PAPER 93-3608] p 406 A93-52669 False cue detection thresholds in flight simulation

p 407 A93-52674 I AIAA PAPER 93-3578 I Future military pilot training - A perspective of industry [AIAA PAPER 93-3601] p 404 A93-52689

Computerized teaching of pilots to spatial orientation p 404 A93-52694 flight tasks KC-135 crew reduction feasibility demonstration

simulation study. Volume 3: Test and evaluation p 30 N93-10713 [AD-A253931]

Perceptual dimensions of visual scenes relevant for simulating low-altitude flight [AD-A254645]

p 57 N93-12662 Evaluation and estimation of handling qualities via

statistical modeling of pilot response data p 69 N93-14548

The relationship between computer scoring and safety-pilot grading of flight performance p 58 N93-14600 AD-A256245 |

Flight director information and pilot performance in instrument approaches p 131 N93-17857

[AD-A258186] Modeling human response errors in synthetic flight simulator domain p 141 N93-19464 Modeling the performance of the human (pilot) interaction in a synthetic flight domain: Information theoretic approach Otolithic illusions on takeoff and visual information:

Reflections in connection with an air accident case p 134 N93-19681

Attitude awareness enhancements for the F-16 head-up display

[AD-A260280] p 236 N93-24168 Virtual interface applications for airborne weapons p 318 N93-28858 systems

Requirements for pilot assistance in a thrust-vectoring combat aircraft p 320 N93-28870

Predicting radiation induced performance decrements of AH-1 helicopter crews. Volume 2: Evaluation of modeling and simulation techniques for predicting radiation induced performance decrements IAD-A2628721 p 351 N93-29484

An evaluation of B-1B pilot performance during simulated instrument approaches with and without status information

[AD-A263874] p 353 N93-29888 Helicopter simulation: An aircrew training and ualification perspective p 342 N93-30676 qualification perspective Training effectiveness assessment: Where are we? p 342 N93-30679

Current training: Where are we? p 342 N93-30680 FLIGHT SIMULATORS

The quality of an operator's work on a flight simulator under conditions of thermal discomfort

p 45 A93-15172 Transfer effects of scene content and crosswind in p 62 A93-15665 landing instruction Pilot performance with blood alcohol concentrations p 46 A93-16151 below 0.04 percent Evaluation of the efficiency of the pilot's control activity p 100 A93-18347 in a flight simulator

Examination of the relationship between changes in the demand for civil aviation services and the volume of flight simulator training p 98 A93-18773

Advances in training technology and the role of the p 98 A93-18775

Incorporating display limitations in a model-based analysis of flight simulator fidelity [AIAA PAPER 93-0859] p 137 A93-24923

Insights into pilot situation awareness using verbal p 175 A93-27138 protocol analysis p 228 A93-30060 Helmet-mounted area of interest Evaluation of conformal and body-axis attitude nformation for spatial awareness p 229 A93-30070 Increasing hits and reducing misses in CRM/LOS information for spatial awareness

simulator scenario p 286 A93-39575 development A study of decision making and performance in rejected

Guidelines for

ISAE PAPER 9211341 p 287 A93-41322 Changes in the dark focus of accommodation associated p 379 A93-49222 with simulator sickness

Profile analysis of simulator sickness symptoms -Application to virtual environment systems

p 381 A93-49399 Motion sickness and oculomotor systems in virtual environments p 381 A93-49400 Virtually induced motion in virtual sickness environments p 381 A93-49401 Cybersickness - Perception of self-motion in virtual p 381 A93-49402 environments Will simulation sickness slow down the diffusion of virtual p 391 A93-49405 environment technology? A literature survey for virtual environments - Military flight

p 387 A93-49406 The time-course of alcohol impairment of general aviation pilot performance in a Frasca 141 simulator

simulator visual systems and simulator sickness

p 384 A93-52299 p 403 A93-55944 Flight director information and pilot performance in instrument approaches

p 131 N93-17857 [AD-A258186]

Effects of medium blood alcohol levels on pilots' performance in the Sea King Simulator MK-41 p 125 N93-19683

Effects on physiology and performance of wearing the aviator NBC ensemble while flying the UH-60 helicopter flight simulator in a controlled heat environment p 235 N93-23995

IAD-A259909 I International application of the DLR test-system: Continuation of the cooperation with Iberia in pilot selection

|DLR-FB-92-12| p 225 N93-24104 A demonstration of motion base design alternatives for the National Advanced Driving Simulator

p 236 N93-24490 [NASA-TM-103881] Autonomic physiological data associated with simulator discomfort

p 222 N93-24738 [NASA-CR-177609] Pilot intent and error recognition as part of a knowledge p 318 N93-28855 based cockpit assistant Utility of a ghost horizon and climb/dive ladder line

tapering on a head-up display [AD-A264401] p 353 N93-30167 Effects of area-of-interest display characteristics of

visual search performance and head movements in simulated low-level flight IAD-A2646611 p 341 N93-30542

Training effectiveness assessment: Where are we? p 342 N93-30679 p 342 N93-30680 Current training: Where are we? Training effectiveness assessment: Methodological

p 342 N93-30684 problems and issues Application and validation of workload assessment techniques IAD-A2645751

p 366 N93-32012 FLIGHT STRESS

Pharmacological means of stimulating the work capacity of flight personnel engaged in stressful activity p 45 A93-15173

Human biorhythms following interregional travel (with reference to Novosibirsk-Vladivostok flights)

p 247 A93-35214 The influence of military low-altitude flight noise on the inner ear of the guinea pig. I - Hearing threshold measurements p 377 A93-49555

p 382 A93-49566 Back ache in helicopter pilots FLIGHT STRESS (BIOLOGY) An assessment of Turkish Air Force pilots' anxiety and

p 23 A93-10334 depression levels Lower body negative pressure system for simulation of +Gz-induced physiological strain p 119 A93-25210 Insights into pilot situation awareness using verbal rotocol analysis p 175 A93-27138 protocol analysis

Flight physiology - Clinical considerations p 164 A93-28690 SUBJECT INDEX **FREE RADICALS**

Manager to the first of the second of the se		
Unconsciousness in flight and its prevention p 217 A93-32787	Head-steered sensor flight test results and implications p 318 N93-28859	Nutrition for a typical MAC crew during Desert Storm p 368 N93-32245
Informative value of the rerespiration method for	FLOW GEOMETRY	Changes in food and energy intake in military aircrew
evaluating the functional resources of the cardiorespiratory	Perception/action: An holistic approach	p 368 N93-32246
system during the simulation of certain flight factors	AD-A259597 p 235 N93-24067	Idiopathic Reactive Hypoglycemia in a population of
p 248 A93-35222	FLUID FILTERS	healthy trainees of an Italian Air Force military school
Structural and cytochemical signs of the development	Microbiological test results of the environmental control	p 368 N93-32248
of deadaptation, as determined from blood characteristics p 252 A93-36724	and life support systems vapors compression distillation subsystem recycle tank components following various	Objective improvements obtained by control of diet and
New aspects of using hyperbaric oxygenation in aviation	pretreatment protocols	physical training in Spanish Air Force fighter pilots
medicine p 252 A93-36742	[NASA-CR-192570] p 359 N93-32354	p 369 N93-32258 The effects of an antijet lag diet p 370 N93-32263
Occupational health problems in aviation medicine	FLUID MANAGEMENT	The effects of an antijet lag diet p 370 N93-32263 FOOD PRODUCTION (IN SPACE)
p 252 A93-36743	Development of membrane gas removal technology for	Controlled Ecological Life Support System - CELSS
Subjective mood and fatigue of C-141 crew during Desert Storm p 370 N93-32264	microgravity liquid flow systems SAE PAPER 921162 p 294 A93-41344	p 62 A93-17432
Storm p 370 N93-32264 FLIGHT SURGEONS	Two phase fluid management for hydroponics	Bioregenerative life support as self-sustaining
Night vision manual for the flight surgeon	[SAE PAPER 921163] p 294 A93-41345	ecosystem in space p 231 A93-32073
[AD-A257059] p 104 N93-15710	FLUID PRESSURE	Biosphere 2 - Overview of system performance during
FLIGHT TESTS	Transcapillary fluid responses to lower body negative	the first nine months
Ground based simulation in test and evaluation	pressure p 380 A93-49292	[SAE PAPER 921129] p 291 A93-41317
education [AIAA PAPER 92-4066] p 24 A93-11252	FLUORESCENCE Growth and yield characteristics of 'Waldmann's Green'	Crop interactions in polyculture and their implications
Simulation and flight test evaluation of head-up-display	leaf lettuce under different photon fluxes from metal halide	for CELSS design SAE PAPER 921197] p 295 A93-41373
guidance for Harrier approach transitions	or incandescent + fluorescent radiation	OCAM - A CELSS modeling tool: Description and results
[AIAA PAPER 92-4233] p 28 A93-13331	p 357 A93-46469	Object-oriented Controlled Ecological Life Support
Microgravity flight testing of a laboratory robot	New approaches to the measurement of chlorophyll,	System Analysis and Modeling
[AAS PAPER 91-035] p 62 A93-15583	related pigments and productivity in the sea	[SAE PAPER 921241] p 298 A93-41413
Visual cues in low-level flight - Implications for pilotage,	NASA-CR-190879 p 42 N93-13612	Stimulation of lettuce productivity by manipulation of
training, simulation, and enhanced/synthetic vision systems p 264 A93-35918	Biofilm ecology of bioluminescent bacteria [AD-A255282] p 42 N93-14532	diurnal temperature and light p 327 A93-44879
Evaluation and estimation of handling qualities via	FLUOROCARBONS	CELSS nutrition system utilizing snails
statistical modeling of pilot response data	Human performance and physiological function during	p 394 A93-52411
[AD-A255324] p 69 N93-14548	a 24-hr exposure to 1 percent bromotrifluorometháne	Lunar base CELSS: A bioregenerative approach
Flight above a virtual world p 145 N93-19766	(Halon 1301) p 277 A93-39704	p 67 N93-13993
Head-steered sensor flight test results and	Toxicokinetics of inhaled bromotrifluoromethane (Halon	Crop growth and associated life support for a lunar farm p 67 N93-13994
implications p 318 N93-28859	1301) in human subjects p 278 A93-39705 FLUOROHYDROCARBONS	farm p 67 N93-13994 FOREARM
FLIGHT TIME Preclinical cardiovascular and neurological	The acute inhalation toxicity of pyrolysis products of	Gravitoinertial force level affects the appreciation of limb
occupation-related pathological symptoms in helicopter	halon 1301	position during muscle vibration p 169 A93-28744
pilots p 91 A93-18416	[AD-A260874] p 254 N93-25629	Prosthetic elbow joint
An analytical study of the effects of age and experience	FLUSHING	[NASA-CASE-MFS-28707-1] p 354 N93-30566
on flight safety p 176 A93-27158	Variable-Volume Flushing (V-VF) device for water	FORMALISM
Relating flying hours to aircrew performance: Evidence	conservation in toilets p 195 N93-22167	Formal aspects of human-computer interaction
for attack and transport missions [AD-A253988] p 25 N93-10719	FLUX DENSITY Development of K.E. Tsiolkovsky's ideas on the	p 66 N93-13909
[AD-A253988] p 25 N93-10719 FLIGHT TRAINING	interaction between space, nature, and man	FORMAT
Success rate analysis of Navy SERGRAD Flight	p 90 A93-18408	Display format and highlight validity effects on search
Training p 56 A93-16152	Stimulation of lettuce productivity by manipulation of	performance using complex visual displays p 187 A93-27160
Visual augmentation and scene detail effects in flight	diurnal temperature and light p 327 A93-44879	Stimulus presentation formats and measurement
training p 180 A93-27454	FLYING PERSONNEL	techniques for the quantification of target detection
Psychophysiological principles of flight training for	The prospects for the improvement of medical monitoring of the health of flight personnel in a military	performance
actions in nonroutine situations p 256 A93-35233 Data bank establishment principles as applied to the	unit p 10 A93-12969	[AD-A258933] p 133 N93-19449
problem of physiological norms in space medicine	The role of rheoencephalography in the practice of	FOSSILS
p 249 A93-35234	aviation medicine p 160 A93-27649	Microfossils of the Early Archean Apex chert - New
KC-135 crew reduction feasibility demonstration	Civil aviation and cardiology - Admission rules and	evidence of the antiquity of life p 272 A93-40308
simulation study. Volume 3: Test and evaluation	follow-up of the technical flying personnel of TAP-Air	FOUR-WAVE MIXING Nonlinear optical properties of porphyrin and chlorophyll
[AD-A253931] p 30 N93-10713	Portugal p 164 A93-28699 Cases from the aerospace medicine residents' teaching	dimers studied by degenerated four wave mixing
An evaluation of crew coordination and performance during a simulated UH-60 helicopter mission	file: Case No.52 - A flyer with syncope (clinical	[DE93-006411] p 210 N93-24028
[AD-A254984] p 35 N93-12509	conference) p 168 A93-28740	FOURIER ANALYSIS
Human factors research in aircrew performance and	Age and length of service of flight personnel in the case	Long-range anticorrelations and non-Gaussian behavior
training: 1986-1991	of chronic diseases p 248 A93-35227	of the heartbeat p 161 A93-28049
[AD-A254455] p 63 N93-12609	Diagnostics and prophylaxis of adverse psychological states in marine aviation flight personnel	FOURIER TRANSFORMATION
Development of measures of crew coordination [AD-A255384] p 70 N93-14651	p 257 A93-36744	Wide-bandwidth high-resolution search for extraterrestrial intelligence
The efficacy of biographical inventory data in predicting	Some characteristics of the etiopathogenesis of hearing	[NASA-CR-191618] p 110 N93-15825
early attrition in naval aviation officer candidate training	loss in aircraft personnel p 359 A93-45691	Enhancement of drug detection and identification by use
(AD-A258025) p 131 N93-17919	Epidemiologic view of allergic diseases in North America:	of various derivatizing reagents on GC-FTIR analysis
An analysis of a sustained flight operation training	Implications for aerospace medicine p 20 N93-11311	[AD-A255582] p 95 N93-16041
mission in Navy attack aircraft	The five-factor personality model and naval aviation candidates	FOVEA
[AD-A258199] p 131 N93-18205 The unique contribution of selected personality tests to	AD-A260227 p 225 N93-24319	Analysis of retinal function following laser irradiation [AD-A255649] p 52 N93-14163
the prediction of success in naval pilot training	The use of electrophysiological and cognitive variables	FRACTURES (MATERIALS)
[AD-A258144] p 132 N93-18291	in the assessment of degradation during periods of	Training, muscle fatigue and stress fractures
The next generation female in cockpit: Do we need a	sustained wakefulness	[AD-A255277] p 54 N93-15006
new approach to cockpit resource management (CRM)?	[AD-A263033] p 283 N93-27923	FRACTURING
p 143 N93-19704	Biological parameters and cardiovascular risk factors with the flying personnel of the Belgian Armed Forces	Is axial loading a primary mechanism of injury to the
Mandatory multi-engined training syllabus [CAP-601] p 363 N93-31729	p 370 N93-32260	lower limb in an impact aircraft accident?
FLIGHT VEHICLES	FLYWHEELS	FRAGMENTS
Evaluation of finger motor reaction in flyer when handling	Development of a large space robot - A multi-segment	Amino acid sequences for the binding regions in serum
throttle and stick p 29 A93-13539	approach. I	albumin proteins
Estimation of the number of operators and their	[AIAA PAPER 93-1463] p 261 A93-34012	[NASA-CASE-MFS-28402-1] p 276 N93-28952
efficiency in flight vehicle control p 193 A93-29696	FOAMS Protective helmet assembly	FREE FALL
FLIR DETECTORS The effects of head and sensor movement on flight	Protective helmet assembly	A free-fall flip-over response in rats after the flight
	I NASA-CASE-MSC-21842-11 p 106 N93-17088	onhoard the Cosmos-936 biosatellite
profiles during simulated dive hombing	[NASA-CASE-MSC-21842-1] p 106 N93-17088 FOCUSING	onboard the Cosmos-936 biosatellite
profiles during simulated dive bombing p 185 A93-27131		onboard the Cosmos-936 biosatellite p 240 A93-35215 Turning-over reaction during free fall in
p 185 A93-27131 Visual illusions and other effects with night vision	FOCUSING Changes in the dark focus of accommodation associated with simulator sickness p 379 A93-49222	p 240 A93-35215 Turning-over reaction during free fall in labyrinthectomized rats after a flight on the Cosmos 936
p 185 A93-27131	FOCUSING Changes in the dark focus of accommodation associated	p 240 A93-35215 Turning-over reaction during free fall in

Prefabricated foldable lunar base modular systems for habitats, offices, and laboratories p 106 N93-17444

Protein absorption and energy digestibility at high p 115 A93-21683

FOOD INTAKE

altitude

teleoperated helmet-mounted displays

HUD format

The design and development of the new RAF standard IUD format p 318 N93-28856

p 311 N93-27177

The application of Hybrid 3 dummy to the impact ssessment of a free-fall lifeboat p 143 N93-19671

Free radical attack - Biological test for human resistance capability p 39 A93-17434

assessment of a free-fall lifeboat
FREE RADICALS

capability

FREEZE DRYING SUBJECT INDEX

Changes in the intensity of free-radical reactions in the Fuzzy neural network methodology applied to medical Polyphosphoinositide response to various organs of rats under hypokinetic stress, protected by the neurotransmitters after an exposure to a helium-oxygen diagnosis p 334 N93-29546 delta-sleep-inducing peptide and its tyrosine-containing atmosphere at a high pressure p 76 A93-18296 Quantification of human responses analogue p 378 A93-51101 p 340 N93-29564 Maximal lung ventilation and forced expiration rate under Investigation of laser-induced retinal damage p 76 A93-18297 hyperbaria p 360 N93-31454 Hyperbaric treatment IAD-A2640961 p 338 N93-31094 An analysis of the respiratory muscle fatigue under Daily exercise routines p 360 N93-31455 FREEZE DRYING resistive loading when breathing gas mixtures containing different amounts of oxygen p 76 A93-18299 Atmospheric control systems p 365 N93-31456 different amounts of oxygen p 76 A93-18299
A device for the prolonged restraint of primates in Freeze-dried human red blood cells Rotational speed control p 365 N93-31457 | AD-A253295 | p 14 N93-11193 Evaluation of dried storage of platelets for transfusion: Vibration isolation n 365 N93-31458 closed-space conditions p 77 A93-18302 Physiologic integrity and hemostatic functionality Hydrogen-rated system for in vitro studies at pressure: AD-A2632401 Operating procedures and emergency procedures G IAD-A2641791 p 336 N93-30882 Fluorocarbon 113 exposure and cardiac dysrhythmias mong aerospace workers p 168 A93-28739 GAS PRESSURE among aerospace workers GALACTIC COSMIC RAYS Functional state of the central nervous system of guinea Human performance and physiological function during pigs after a prolonged stay in artificial atmospheres with Interplanetary crew exposure estimates for galactic a 24-hr exposure to 1 percent bromotrifluoromethane p 87 A93-17975 cosmic rays different gas compositions p 75 A93-18287 (Halon 1301) p 277 A93-39704 The effect of elevated nitrogen pressure on motor activity Single particle effects, Biostack, and risk evaluation and relationships among brain centers in monkeys Toxicokinetics of inhaled bromotrifluoromethane (Halon Studies on the radiation risk from Galactic cosmic rays 1301) in human subjects p 278 A93-39705 p 75 A93-18289 Sleep as a restorative process under extreme p 202 A93-32243 FREQUENCY ANALYZERS Human exposure to galactic cosmic rays in space A procedure for the frequency analysis of telerobotic tasks data p 392 A93-50513 p 410 A93-54887 p 89 A93-18291 Growing wheat to maturity in reduced gas pressures [NASA-CR-193245] p 277 N93-29216 GAMMA RAYS FREQUENCY MEASUREMENT Combined effect of head-down tilt and gamma rays on Auditory perception [AD-A255061] GAS SPECTROSCOPY the higher nervous activity of rats p 242 A93-35262 p 23 N93-12469 Design of ion source of respiratory mass spectrometer p 11 A93-13713 Early andrological effects in rats under the combined FREQUENCY MODULATION p 242 A93-35263 effect of irradiation and vibration Auditory spectro-temporal pattern analysis GAS-SOLID INTERACTIONS Flow cytometric analysis of lymphocyte surface markers [AD-A264691] p 361 N93-31981 Formation of reduced carbonaceous matter in basalts and xenoliths - Reaction of C-O-H gases on olivine crack following a 1-Gy dose of gamma radiation FREQUENCY SCANNING p 281 A93-41170 A new test of scanning and monitoring ability: Methods **GARMENTS** surfaces --- space biological evolution and initial results p 411 A93-53286 Modeling clothed figures [AD-A249123] GASTROINTESTINAL SYSTEM IAD-A2570371 p 71 N93-15363 FROGS Epidemiologic view of allergic diseases in North America: Ventilation loss in the NASA Space Shuttle crew Studying the effects of microgravity on lower vertebrate Implications for aerospace medicine p 20 N93-11311 protective garments: Potential for heat stress development and behavior p 158 N93-21099 p 148 N93-19955 LAD-A2585521 Micromotional studies of utricular and canal afferents Development of resonance ionization spectroscopy for Evaluation of personal cooling systems in conjunction INASA-CR-1927031 p 207 N93-22800 genome mapping and DNA sequencing using stable with explosive ordnance disposal suits sotopes as DNA labels Japanese treefrog experiment onboard the Space p 350 N93-29471 Station Mir p 210 N93-24402 [DE93-007815] p 246 N93-26587 GAS ANALYSIS FROSTBITE Comparative mutagenesis of human cells in vivo and Design of ion source of respiratory mass spectrometer Effects of cold injury on serum angiotensin converting nzyme activities in rats p 199 A93-30444 in vitro p 11 A93-13713 (DE93-0122691 p 276 N93-28651 enzyme activities in rats p 159 N93-21933 Cellular and tissue injury during nonfreezing cold injury GÉMINI FLIGHTS GAS CHROMATOGRAPHY NASA's manned space flight program
[AAS PAPER 91-626] p and frostbite Methods development for total organic carbon p 402 A93-55805 IAD-A2605741 p 254 N93-25900 FROZEN FOODS GENE EXPRESSION INASA-CR-184438 I p 40 N93-12949 Space Station Freedom food management Selection of a ribozyme that functions as a superior Enhancement of drug detection and identification by use SAE PAPER 921248 p 298 A93-41419 template in a self-copying reaction p 111 A93-22053 of various derivatizing reagents on GC-FTIR analysis FULL SCALE TESTS Plasmid encoded virulence of Yersinia IAD-A2555821 p 95 N93-16041 Human factors evaluation of the HL-20 full-scale [FOA-B-40419-4.4] p 275 N93-28199 Carbon monoxide exposure of subjects with documented p 409 A93-53746 cardiac arrhythmias [PB93-179943] Gene transcription and electromagnetic fields **FUMES** p 337 N93-30890 p 276 N93-28848 [DE93-010854] Potential health effects of fume particles on the crew GAS COMPOSITION GENERAL AVIATION AIRCRAFT of spacecrafts Gas composition in the blood of rabbits exposed to a Workshop on Aeronautical Decision Making (ADM). p 308 A93-41545 ISAE PAPER 9213871 high-pressure atmosphere under conditions Volume 1: Executive summary FUNCTIONAL ANALYSIS spontaneous and forced ventilation p 77 A93-18301 1AD-A2570161 p 99 N93-16189 Operator workload predictions for the revised AH-64A Comparisons of molecular sieve oxygen concentrators **GENERAL OVERVIEWS** workload prediction model. Volume 2: Appendixes A for potential medical use aboard commercial aircraft An overview of the dynamic predictive architecture for I AD-A253648 I through H p 31 N93-11279 p 191 A93-29112 robotic assistants I AD-Ă254939 I GAS DENSITY GENES **FUNCTIONAL DESIGN SPECIFICATIONS** Control of breathing under conditions of altered Functions simulation model of integrated regenerable Molecular biology of anaerobic aromatic atmospheric density during muscular work biodegradation life support system [SAE PAPER 921201] p 89 A93-18288 [AD-A255213] p 42 N93-13863 p 295 A93-41377 The state of brain oxygenation in guinea pigs breathing KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation Molecular approach to hypothalamic rhythms high-density gas mixtures
GAS DETECTORS p 76 A93-18294 p 335 N93-30421 [AD-A264438] GENETIC CODE p 30 N93-10713 IAD-A2539311 The challenge of biodetection for screening persons Space Biology Initiative. Trade Studies, volume 1 Experimental studies on the origin of the genetic code p 159 N93-21931 carrying explosives p 207 N93-23068 and the process of protein synthesis - A review update p 73 A93-17822 (NASA-CR-190989) Hydrogen-rated system for in vitro studies at pressure: Space Biology Initiative. Trade Studies, volume 2 Operating procedures and emergency procedures |NASA-CR-190990| p 208 N93-23079 p 336 N93-30882 The evolution of aminoacyl-tRNA synthetases, the [AD-A264179] Extravehicular activity system p 312 N93-27787 biosynthetic pathways of amino acids and the genetic Mathematical model for the exchange of gases in the p 73 A93-17825 **FUNCTIONAL INTEGRATION** code lungs with special reference to carbon monoxide Relationship between G + C in silent sites of codons The quest for an integrated flying helmet p 271 A93-39707 p 319 N93-28860 and amino acid composition of human proteins Minitron II system for precise control of the plant growth p 358 A93-47099 **FUNGAL DISEASES** p 357 A93-46470 environment Coccidioidomycosis - A persistent threat to deployed A model for the prebiotic synthesis of peptides which Effects of CO2 and photosynthetic photon flux on yield, p 380 A93-49228 populations throws light on the origin of the genetic code and the gas exchange and growth rate of Lactuca sativa L. 'Waldmann's Green' p 397 A93-52723 observed chirality of life p 412 A93-56000 FUNGI Development of resonance ionization spectroscopy for Relative resistance of biofilms and planktonic cells of GAS GIANT PLANETS genome mapping and DNA sequencing using stable common molds and yeasts to antimicrobials Giant planets: Clues on current and past organic p 273 A93-41388 isotopes as DNA labels [SAE PAPER 921212] chemistry in the outer solar system p 113 N93-18551 p 246 N93-26587 [DE93-007815] Altered immunological response in mice subjected to GAS MIXTURES Intracellular targeting of the Yersinia YopE cytotoxin in stress and exposed to fungal spores Functional state of the central nervous system of guinea |SAE PAPER 921215| p 274 A93-41391 mammalian cells induces actin microfilament disruption pigs after a prolonged stay in artificial atmospheres with [FOA-B-40420-4.4] The production and use of aeroponically grown inocula p 275 N93-27989 different gas compositions p 75 A93-18287 Plasmid encoded virulence of Yersinia of VAM fungi in the native plant nursery Motor activity of animals under elevated pressure p 275 N93-28199 p 43 N93-15208 FOA-B-40419-4.41 IPB92-2049731 p 75 A93-18290 Sleep as a restorative process under extreme **FUZZY SETS** Comparative mutagenesis of human cells in vivo and conditions p 89 A93-18291 in vitro A comparison of neural network and fuzzy clustering [DE93-012269] p 276 N93-28651 techniques in segmenting magnetic resonance images of Local blood supply of the brain of guinea pigs developing p 214 A93-31267 p 76 A93-18293 **GENETIC ENGINEERING** the brain the high-pressure neural syndrome FUZZY SYSTEMS The state of brain oxygenation in guinea pigs breathing Selection of a ribozyme that functions as a superior

p 76 A93-18294

template in a self-copying reaction p 111 A93-22053

high-density gas mixtures

Adaptive autonomous target cuer p 148 N93-19784

SUBJECT INDEX		GRAVITATIONAL EFFECTS
Cognitive competencies - Products of genes,	GLOBULINS	Evaluation of Night Vision Goggles (NVG) for maritime
experience, and technology for training of primates p 201 A93-32113	Structure of a human monoclonal antibody Fab fragment against gp41 of human immunodeficiency virus type	search and rescue [AD-A257704] p 107 N93-17697
Molecular biology of anaerobic aromatic	p 153 A93-28698	Helicopter night vision goggle testing in the United
biodegradation [AD-A255213] p 42 N93-13863	GLOVES Effects of error-proofing and	Kingdom p 148 N93-19917
Characterization and classification of strains of	chemical/biological/radiation protective glove use on	Night vision goggle training: Development and production of six video programs
Francisella tularensis isolated in the central Asian focus of the Soviet Union and in Japan	touch panel operation p 186 A93-27152 Glovebox design for Space Station Freedom Crew	[AD-A258529] p 148 N93-20050
[FOA-B-40421-4.4] p 275 N93-28200	Health Care System	Interpupillary and vertex distance effects on field-of-view and acuity with ANVIS
Use of RNA hybridization in the diagnosis of a case of	[SAE PAPER 921139] p 292 A93-41326 The Centrifuge Facility Life Sciences Glovebox	[AD-A261259] p 268 N93-26265
ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212	configuration study	Goggles emergency release apparatus [AD-D015685] p 351 N93-29607
GENETICS	[SAE PAPER 921158] p 293 A93-41341 Development of a test protocol for evaluating EVA glove	CATS EYES adjustment procedures
Results of experiments on the exploration of genetic effect of rocket flight factors with Drosophila	performance	[AD-A264069] p 353 N93-29924
melanogaster p 1 A93-11691	SAE PAPER 921254 p 298 A93-41424 Power assist EVA glove development	The effects of superimposing symbology on a simulated night vision goggle display
Interdisciplinary research and training program in the plant sciences	[SAE PAPER 921255] p 299 A93-41425	[AD-A263458] p 354 N93-30590
[DE92-015919] p 5 N93-10835	Development of the Hermes EVA Space Suit Glove (SAE PAPER 921256) p 299 A93-41426	GOVERNMENT/INDUSTRY RELATIONS Achieving the promise of the bioscience revolution: The
Molecular cytogenetics: A novel approach for measuring chromosome translocations in individuals years after	Gloved operator performance study	role of the Federal Government
exposure to low levels of ionizing radiation	[AD-A256894] p 104 N93-16048 Evaluation of hole sizes in structures requiring EVA	[PB93-139970] p 244 N93-25457 GOVERNMENTS
[DE92-018066] p 5 N93-10974 Mathematics and biology: The interface, challenges and	services as a means to prevent gloved-hand finger entrapment	Achieving the promise of the bioscience revolution: The
opportunities	NASA-TM-104767 p 234 N93-23129	role of the Federal Government [PB93-139970] p 244 N93-25457
[DE92-041207] p 82 N93-17359	An innovative method for hand protection from extreme cold using heat pipe	GRAPH THEORY
Primary events in olfactory reception [AD-A260562] p 255 N93-25944	[AD-A259720] p 235 N93-24128	Two strikes against perfect phylogeny RUU-CS-92-08 p 157 N93-20848
Planetary Biology and Microbial Ecology: Molecular Ecology and the Global Nitrogen cycle	Investigation of the effects of Extra Vehicular Activity (EVA) and Launch and Entry (LES) gloves on	GRAPHS (CHARTS)
[NASA-CR-4497] p 269 N93-26157	performance p 266 N93-26061	Graphical displays - Implications for divided attention, focused attention, and problem solving
Development of resonance ionization spectroscopy for genome mapping and DNA sequencing using stable	EVA Glove Research Team [NASA-CR-193014] p 313 N93-27847	p 102 A93-19984 Choosing specifiers - An evaluation of the basic tasks
isotopes as DNA tabels	Power assist EVA glove development	model of graphical perception p 102 A93-19985
[DE93-007815] p 246 N93-26587 Comparative mutagenesis of human cells in vivo and	p 314 N93-27850 Biophysical model for handwear insulation testing	Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848
in vitro	(AD-A262926) p 320 N93-28884	GRAVIRECEPTORS
[DE93-012269] p 276 N93-28651 Gene transcription and electromagnetic fields	GLUCOSE Blood and urine responses to ingesting fluids of various	Graviperception in unicellular organisms - A comparative behavioural study under short-term microgravity
[DE93-010854] p 276 N93-28848	salt and glucose concentrations to combat orthostatic	p 151 A93-26548
GEOCHEMISTRY Chemical environments of submarine hydrothermal	intolerance p 83 A93-17528 Effects of sleep deprivation and exercise on glucose	Cell wall and enzyme changes during the graviresponse of the leaf-sheath pulvinus of oat (Avena sativa)
systems supporting abiogenetic theory	tolerance p 281 A93-41165 Muscle glucose uptake in the rat after suspension with	p 329 A93-44941
p 74 A93-18005 Mineral theories of the origin of life and an iron sulfide	single hindlimb weight bearing p 326 A93-44178	GRAVITATION The physiological limitations of man in the high G
example p 74 A93-18009	Effect of insulin-like factors on glucose transport activity in unweighted rat skeletal muscle p 399 A93-55458	environment p 319 N93-28861
Aqueous high-temperature and high-pressure organic geochemistry of hydrothermal vent systems	Idiopathic Reactive Hypoglycemia in a population of	GRAVITATIONAL EFFECTS New pharmacologic approaches to the prevention of
p 397 A93-53285	healthy trainees of an Italian Air Force military school p 368 N93-32248	space/motion sickness p 85 A93-17538 Hematologic status of rats born and grown in a
A comparative analysis of the bone marrow cell	GLUTAMATES	hypergravity environment p 239 A93-35212
composition in rats following a long-duration continuous or interrupted exposure to a hypogeomagnetic field	Physiological analyses of the afferents controlling brain neurochemical systems	Ecological-morphological features of the growth and distribution of cultures of unicellular organisms in a
p 240 A93-35213	[AD-A253185] p 14 N93-11146	gravitational field p 241 A93-35248
Effect of an attenuated geomagnetic field on the cellular composition of the epithelial-spermogenous layer of rat	Study of SCN neurochemistry using in vivo microdialysis in the conscious brain: Correlation with circadian activity	Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change
testes p 240 A93-35229	rhythms [AD-A259803] p 217 N93-23459	p 242 A93-35264
GEOMETRICAL OPTICS A computational model for the stereoscopic optics of	GLYCOGENS	Possible biological significance of the curvature of equipotential surfaces of gravity-force tidal variations
a head-mounted display p 390 A93-49393	Muscle glycogen, fiber type, aerobic fitness, and anaerobic capacity of West Coast US Navy Sea-Air-Land	p 324 A93-43025
GEOMORPHOLOGY The possibility of life on Mars during a water-rich past	personnel (SEALs)	Dynamics of auxin movement in the gravistimulated leaf-sheath pulvinus of oat (Avena sativa)
p 196 A93-27887 GERIATRICS	[AD-A258364] p 121 N93-18209 GLYCOLYSIS	p 358 A93-46472 Clinostats and centrifuges: Their use, value, and
Dual-task training strategies and aging	Metabolic factors influencing myocardial recovery from	limitations in gravitational biological research; Symposium,
[AD-A258261] p 131 N93-18027 GERMINATION	acidosis (CiC3) [AD-A252376] p 14 N93-10796	Washington, Oct. 19, 1991, Report p 375 A93-49206 The simulation of microgravity conditions on the ground
A study of the effects of micro-gravity on seed	GOGGLES	and biological effects of weightlessness
germination p 40 N93-13167 Final results of space exposed experiment developed	I-NIGHTS and beyond Interim-Night Integrated Goggle and Head Tracking System p 227 A93-30054	p 375 A93-49207 Centrifuges - Evolution of their uses in plant gravitational
for students p 329 N93-29702	USAF/USN fixed wing night vision - The mission	biology and new directions for research on the ground
Continued results of the seeds in space experiment p 330 N93-29703	p 227 A93-30055 Helmet mounted display with multiple image sources	and in spaceflight p 376 A93-49211 The fast rotating clinostat - A history of its use in
GERONTOLOGY	p 227 A93-30057	gravitational biology and a comparison of ground-based
Conference on Correlations of Aging and Space Effects on Biosystems, Oct. 30-Nov. 1, 1989, Proceedings	Helmet-mounted display for the night attack mission p 228 A93-30059	and flight experiment results p 376 A93-49212 Altered gravity conditions affect early EGF-induced
Book p 79 A93-20651 GESTALT THEORY	Low-cost monochrome CRT helmet display	signal transduction in human epidermal A431 cells p 376 A93-49214
The perception of articulated motion: Recognizing	p 228 A93-30061 Spatial contrast sensitivity through aviator's night vision	Incidence of cardiac dysrhythmias occurring during
moving light displays {AD-A256046} p 59 N93-14660	imaging system p 393 A93-52300	centrifuge training p 384 A93-52297 Effects of unilateral selective hypergravity stimulation
GLARE	Selective factors affecting rotary wing aviator performance with symbology superimposed on night vision	on gait p 386 A93-52407
Effects of laser glare on visual search performance p 180 A93-28158	goggles	An overview of gravitational physiology {NASA-TM-102849 p 35 N93-12319
Discomfort glare from high-intensity discharge	[AD-A254983] p 35 N93-12508 Integration of exterior lighting systems and night vision	A study of the effects of micro-gravity on seed
headlamps: Effects of context and experience (PB93-174720) p 336 N93-30659	imaging systems	germination p 40 N93-13167 Effects of spaceflight on the proliferation of jejunal
GLAUCOMA	[AD-A254826] p 63 N93-12732 Evaluation of Night Vision Goggles (NVG) for maritime	mucosal cells [NASA-CR-191303] p 51 N93-13449
The development of a visual color checkerboard stimulator p 30 A93-13723	search and rescue (joint Canadian/US Coast Guard	Bone loss and human adaptation to lunar gravity
Intraocular pressure in microgravity p 85 A93-17539	experiment) [AD-A255525] p 70 N93-14554	p 51 N93-14002 Possible biomedical applications and limitations of a
The pigmentary dispersion disorder in USAF aviators	Night vision manual for the flight surgeon	variable-force centrifuge on the lunar surface: A research
p 87 A93-18033	[AD-A257059] p 104 N93-15710	tool and an enabling resource p 83 N93-17458

GRAVITATIONAL FIELDS SUBJECT INDEX

A proposal to determine properties of the gravitropic Effects of antiorthostatic suspension and corticosterone Micromotional studies of utricular and canal afferents response of plants in the absence of a complicating g-force p 207 N93-22800 on macrophage and spleen cell function INASA-CR-1927031 (GTHRES) Neural processing of gravity information p 153 A93-28693 NASA-CR-192766 p 209 N93-23233 INASA-CR-1922191 Influence of gravitoinertial force level on vestibular and Radiological assessment for Space Station Freedom Physiological experiments within the project AustroMir visual velocity storage in yaw and pitch [NASA-TM-104758] p 219 N93-24354 p 128 N93-20303 p 165 A93-28701 How do zooplankton feed? A critical microgravity Eye-head-arm coordination and spinal reflexes in Gravitational stress and volume regulation experiment p 158 N93-21097 p 165 A93-28709 weightlessness p 236 N93-24362 Gravity as a factor in the orientation and vertical Development and implementation of the MotoMir Neurology of microgravity and space travel migration of marine zooplankton experiment on the Mir Space Station p 158 N93-21098 p 168 A93-28735 Studying the effects of microgravity on lower vertebrate p 220 N93-24363 Gravitoinertial force level affects the appreciation of limb development and behavior Monitoring of cardiovascular parameters during the p 158 N93-21099 p 169 A93-28744 position during muscle vibration Aimed arm movements under changed gravity p 220 N93-24367 AustroMir space flight Early amphibian (anuran) morphogenesis is sensitive to p 193 N93-21113 Influence of microgravity on immune system and genetic p 156 A93-28745 novel gravitational fields Gravitational Biology Facility on Space Station: Meeting p 220 N93-24370 information the needs of space biology p 206 N93-22625 Vestibular ataxia following shuttle flights - Effects of JPRS report: Science and technology. Central Eurasia: NASA supporting studies for microgravity research on microgravity on otolith-mediated sensorimotor control of Life sciences eye movements p 169 A93-28750 IJPRS-ULS-92-0221 posture p 253 N93-25407 I NASA-CR-1932331 p 285 N93-29041 Microgravity and bone adaptation at the tissue level The physiological limitations of man in the high G p 319 N93-28861 Acquisition of physiological data during G-induced Loss p 170 A93-28761 of Consciousness (G-LOC) Issues on human acceleration tolerance after Distinguishing unloading- versus reloading-induced I AD-A2644921 long-duration space flights p 335 N93-30400 changes in rat soleus muscle p 157 A93-28763 INASA-TM-1047531 GRAVITATIONAL FIELDS p 334 N93-29651 Rotating-wall vessel coculture of small intestine as a Possible biological significance of the curvature of GRAVITROPISM prelude to tissue modeling - Aspects of simulated equipotential surfaces of gravity-force tidal variations A proposal to determine properties of the gravitropic microgravity p 171 A93-28765 p 324 A93-43025 Effect of simulated weightlessness on microvessel response of plants in the absence of a complicating g-force The simulation of microgravity conditions on the ground permeability of various organs in rabbits (GTHRES) NASA-CR-1922191 --- and biological effects of weightlessness p 199 A93-30438 p 375 A93-49207 Gravity and root morphogenesis p 210 N93-24403 Cardiovascular problems during space flight The internal dynamics of slowly rotating biological ystems p 375 A93-49208 p 213 A93-30445 GREENHOUSES Dynamics of the controlled environment conditions in The Biological Flight Research Facility p 152 A93-27460 Development of physical and mathematical models for p 239 'SVET' greenhouse in flight A93-34581 the Porous Ceramic Tube Plant Nutrification System The first 'space' vegetables have been grown in the Ecological-morphological features of the growth and 'SVET' greenhouse using controlled environmental (PCTPNS) distribution of cultures of unicellular organisms in a gravitational field p 241 A93-35248 [NASA-TM-107551] p 394 A93-52410 p 4 N93-10085 conditions GRAVITATIONAL PHYSIOLOGY **GROUND BASED CONTROL** Intraocular pressure and retinal vascular changes during ansient exposure to microgravity p 278 A93-39710 The space life sciences strategy for the 21st century Human-computer cooperative problem oblem solving in p 188 A93-27163 transient exposure to microgravity p 1 A93-10636 Altering the position of the first horizontal cleavage satellite ground control The cardiovascular system p 46 A93-15530 Ground-remote control for space station telerobotics furrow of the amphibian (Xenopus) egg reduces embryonic Accuracy of aimed arm movements in changed gravity p 272 A93-39717 with time delay [AAS PAPER 92-0521 survival p 392 A93-50592 p 56 A93-16159 Program development for exercise countermeasures Potential hazards of high anti-Gz suit protection **GROUND CREWS** ISAE PAPER 9211401 p 292 A93-41327 p 48 A93-16164 Spaceflight on STS-48 and earth-based unweighting Networked simulation for team training of Space Station Frontier Symposium on Clinical Pharmacology in Space, astronauts, ground controllers, and scientists - A training produce similar effects on skeletal muscle of young rats 10th, Houston, TX, May 10, 11, 1990, Proceedings and development environment p 179 A93-27188 p 326 A93-44179 p 83 A93-17527 Activity-induced regulation of myosin isoform distribution Training concept for crew, end user, and ground centre Cerebral blood flow during +Gz acceleration as - Comparison of two contractile activity programs personnel in the Columbus utilisation programme measured by transcranial Doppler p 84 A93-17532 p 226 N93-24382 p 326 A93-44183 Intraocular pressure in microgravity The effect of G-experience on heart rate during +Gz Lipidemic profile of Hellenic Airforce officers p 362 N93-32250 p 85 A93-17539 p 333 A93-45322 loading Human autonomic responses to actual and simulated **GROUND EFFECT MACHINES** Image technology and information analysis of bone p 85 A93-17540 Performance differences in psychomotor and dichotic listening tests among landing craft air cushion vehicle weightlessness change with gravitational exposure p 378 A93-49177 Optimal sampling theory and population modelling Arterial oxygen saturation during +Gz acceleration by onerator trainees Application to determination of the influence of the p 177 A93-27174 short-radius centrifuge p 379 A93-49178 microgravity environment on drug distribution and **GROUND TESTS** Effect of chronic centrifugation on in vitro fertilization p 85 A93-17542 elimination Ground based simulation in test and evaluation and early development in mice ova p 375 A93-49179 Effects of gravity on gastric emptying, intestinal transit, Clinostats and centrifuges: Their use, value, and education and drug absorption [AIAA PAPER 92-4066] p 24 A93-11252 p 85 A93-17543 limitations in gravitational biological research; Symposium, Washington, Oct. 19, 1991, Report p 375 A93-49206 Human factors applications in control systems design Acute hemodynamic response to weightlessness during parabolic flight p 86 A93-17547 qualitative and quantitative aspects of the for ground testing of turbine engines Changes in total body water during spaceflight p 409 A93-54410 fast-rotating clinostat as a research tool --- for effects of p 86 A93-17548 Ground testing of bioconvective variables such as weightlessness on biological objects morphological characterizations and mechanisms which Alterations of proprioceptive function in the weightless p 375 A93-49209 p 86 A93-17549 regulate macroscopic patterns p 82 N93-17303 Centrifuges - Their development and use in gravitational Cardiovascular adaptation to spaceflight GROUND WATER p 376 A93-49210 biology The possibility of life on Mars during a water-rich past p 86 A93-17550 Cerebral blood flow velocity in humans exposed to 24 Echocardiographic evaluation of the cardiovascular p 196 A93-27887 p 381 A93-49295 h of head-down tilt p 87 A93-17551 effects of short-duration spaceflight Preservation of biological information in thermal spring Functional adaptation of different rat skeletal muscles deposits - Developing a strategy for the search for fossil Hypokinesia and Clinical weightlessness: to weightlessness p 377 A93-49575 physiologic aspects --- Book [ISBN 0-8236-2415-3] e on Mars p 197 A93-28377 Water in the solar system and its role in exobiology; life on Mars The psychosocial adaptation of children in space - A p 388 A93-50338 n 87 A93-17897 speculation Proceedings of the European Geophysical Society General Visual scene effects on the somatogravic illusion Acute hypertensive response to +Gz acceleration in A93-18035 Assembly, 26th, Wiesbaden, Germany, Apr. 22-26, 1991 p 268 A93-36551 p 88 mildly hypertensive pilots p 386 A93-52307 Biomedical engineering and space Evaluation of spontaneous baroreflex response after 28 A93-20015 p 268 A93-36552 days head down tilt bedrest p 386 A93-52404 Liquid water and the origin of life Cardiovascular physiology in space flight Human locomotion and workload for simulated lunar and Roles of water molecules in bacteria and viruses p 93 A93-20654 p 394 A93-52406 Martian environments p 243 A93-36555 The mechanical control system of bone in weightless Effects of unilateral selective hypergravity stimulation Cryoprotective properties of water in the earth A93-52407 spaceflight and in aging p 94 A93-20657 on gait p 386 cryolithosphere and its role in exobiology p 14 N93-11284 Attered cell function in microgravity Space flight and immune system p 269 A93-36558 A93-20660 p 79 Asthma in aircrew: Assessment, treatment and Anaerobic microbial transformation of aromatic Effects of head down tilt on hepatic circulation and p 21 N93-11315 hydrocarbons and mixtures of aromatic hydrocarbons and metabolism in conscious dogs p 80 A93-20899 An overview of gravitational physiology halogenated solvents Energetics of walking and running - Insights from NASA-TM-102849 p 35 N93-12319 [AD-A255696] p 42 N93-14557 Bone loss and human adaptation to lunar gravity p 51 N93-14002 simulated reduced-gravity experiments **GROUP DYNAMICS** p 116 A93-21687 The effects of variations in the anti-G straining maneuver The role of mental models in team performance in STS-40 Spacelab Life Sciences 1 (SLS-1): The first complex systems p 262 A93-34985 on blood pressure at +Gz acceleration dedicated spacelab life sciences mission p 80 N93-15823 An evaluation of crew coordination and performance p 118 A93-25204 [NASA-TM-108034] during a simulated UH-60 helicopter mission p 158 N93-21074 The effect of G-LOC on psychomotor performance and Space life sciences overview p 35 N93-12509 behavior p 130 A93-25205 IAD-A2549841 Cerebral autoregulation in microgravity p 173 N93-21112 Blood volume reduction counteracts fluid shifts in water GROWTH p 118 A93-25206 Aimed arm movements under changed gravity p 193 N93-21113

Gravitational Biology Facility on Space Station: Meeting

the needs of space biology

p 206 N93-22625

Identification of a critical period for motor development

Mechanical forces and their second messengers in

p 157 A93-28764

p 204 A93-33043

in neonatal rats

stimulating cell growth in vitro

immersion

The effects of a 10-day period of head-down tilt on the

p 163 A93-28686

cardiovascular responses to intravenous saline loading

SUBJECT INDEX **HEAD DOWN TILT** Medical aspects of cold weather operations: A handbook

for medical officers

Effects of simulated microgravity (HDT) on blood

fluidity

p 44 A93 14972

Ecological-morphological features of the growth and

p 104 N93-15968

p 207 N93-23068

p 208 N93-23079

Space Biology Initiative. Trade Studies, volume 1 [NASA-CR-190989] p 207 N93-2

INASA-CR-1909901

Space Biology Initiative. Trade Studies, volume 2

distribution of cultures of unicellular organisms in a gravitational field p 241 A93-35248 IAD-A2635591 p.336 N93-30588 Rat cardiovascular responses to whole body suspension Altered gravity conditions affect early EGF-induced HANDEDNESS Head-down and non-head-down tilt p 37 A93-14974 Handedness and motor programming effects of manual Changes of REG during 4h head-down bed-rest signal transduction in human epidermal A431 cells p 46 A93-16075 p 376 A93-49214 control and movement [AD-A264022] p 340 N93-30027 Effects of maglev-spectrum magnetic field exposure on Orthostatic function during a stand test before and after HARDENING (SYSTEMS) p 84 A93-17530 CEM T-lymphoblastoid human cell head-up or head-down bedrest growth and Studies of a laser/nuclear thermal hardened body Modification of water and electrolyte metabolism during IDE92-0411341 p 96 N93-16552 armor head-down tilting by hypoglycemia in men p 34 N93-12423 AD-A2551281 p 92 A93-20029 Gravity and root morphogenesis p 210 N93-24403 HARDWARE Effects of head down tilt on hepatic circulation and Development of Arabidopsis thaliana grown under Comparison of CRT display measurement techniques n 80 A93-20899 metabolism in conscious dogs p 211 N93-24404 microgravity conditions p 229 A93-30067 Intracardiac hemodynamics in man during short periods Electrophoretic separation of cells and particles from p 117 A93-24044 Tests characterizing bioprocessor hardware for of head-down and head-up tilt rat pituitary and rat spleen analytical modeling Response of the circadian system to 6 deg head-down [NASA-CR-193073] p 276 N93-28415 p 307 A93-41516 ISAE PAPER 9213571 p 117 tilt bed rest Space biology initiative program definition review. Trade Increased orthostatic blood pressure variability after rolonged head-down tilt p 161 A93-28676 study 5: Modification of existing hardware (COTS) versus Н prolonged head-down tilt p 207 N93-23069 Influence of posture and prolonged head-down tilt on new hardware build cost analysis Space biology initiative program definition review. Trade p 161 A93-28677 cardiovascular reflexes HABITABILITY study 4: Design modularity and commonality Response of adrenergic receptors to 10 days head-down Habitable zones around main sequence stars p 208 N93-23071 p 162 A93-28679 Space biology initiative program definition review. Trade p 197 A93-28376 Effects of head-down tilt for 10 days on the compliance Lunar base requirements for human habitability study 3: Hardware miniaturization versus cost p 162 A93-28680 of the leg p 345 A93-41995 p 208 N93-23080 Cardiovascular response to lower body negative pressure before, during, and after ten days head-down tilt bedrest p 162, A93-28681 Space biology initiative program definition review. Trade Long-duration isolation and confinement: Human factors study 6: Space Station Freedom/spacelab modules issues and research requirements p 100 N93-16808 compatibility Pulmonary responses to lower body negative pressure Habitat automation IEEI-89-2361 p 209 N93-23081 p 33 N93-11976 and fluid loading during head-down tilt bedrest p 162 A93-28682 Marshall Space Flight Center ECLSS technology Scaling issues for biodiversity protection activities p 312 N93-27724 Cardiopulmonary function during 10 days of head-down p 6 N93-12315 IDE92-0166891 HARDWARE UTILIZATION LISTS tilt bedrest p 162 A93-28683 Conceptual design of a fleet of autonomous regolith Space biology initiative program definition review. Trade Effect of head-down tilt bedrest (10 days) on lymphocyte throwing devices for radiation shielding of lunar habitats p 163 A93-28684 study 3: Hardware miniaturization versus cost [NASA-CR-192078] p 108 N93-17806 p 208 N93-23080 Effects of head-down tilt and saline loading on body Metabolic response of environmentally isolated Space biology initiative program definition review. Trade weight, fluid, and electrolyte homeostasis in man microorganisms to industrial effluents: Use of a newly study 2: Prototype utilization in the development of space p 163 A93-28685 p 245 N93-26066 described cell culture assay p 209 N93-23082 The effects of a 10-day period of head-down tilt on the Analysis of the lettuce data from the variable pressure Space Station Freedom biomedical monitoring and cardiovascular responses to intravenous saline loading growth chamber at NASA Johnson Space Center: A countermeasures: Biomedical facility hardware catalog p 163 A93-28686 three-stage nested design model p 246 N93-26700 p 245 N93-26069 | NASA-CR-193156 | Effect of head-down bedrest on blood/plasma density p 163 A93-28687 Development of a pyrolysis waste recovery model with HARNESSES after intravenous fluid load designs, test plans, and applications for space-based Quick-disconnect harness system for helmet-mounted Diuresis and natriuresis following isotonic saline infusion p 228 A93-30065 habitats p 267 N93-26076 displays healthy young volunteers before, during, and after HARRIER AIRCRAFT HABITS DT p 163 A93-28688 Head-down tilt bedrest: HDT'88 - An international HDT Simulation and flight test evaluation of head-up-display The lifestyle and dietary consumption patterns of United guidance for Harrier approach transitions collaborative effort in integrated systems physiology States Air Force aviators within air training command at | AIAA PAPER 92-4233 | p 28 A93-13331 p 164 A93-28689 p 369 N93-32257 Randolph Air Force Base, Texas HABITUATION (LEARNING) Aerobic fitness. I - Response of volume regulating Background and objectives of the PARAT program Potential hazards of high anti-Gz suit protection hormones to head-down tilt p 167 A93-28721 p 48 A93-16164 p 68 N93-14013 p 343 N93-31230 Effect of simulated weightlessness on microvessel The PARAT tests as examination system Occupational ergonomics in space permeability of various organs in rabbits p 199 A93-30438 N93-31238 Effects of maglev-spectrum magnetic field exposure on p 344 T-lymphoblastoid human cell HAIR Cardiac bioelectric activity in healthy men during a growth differentiation 370-day head-down tilt experiment p 247 A93-35208 Hair cell tufts and afferent innervation of the bullfrog [DE92-041134] p 96 N93-16552 crista ampullaris p 329 A93-44931 Hemodynamics in monkeys during antiorthostatic Sound attenuation characteristics of the standard HALLEY'S COMET hypokinesia at angles of -6 and -20 deg p 241 A93-35259 Comet Halley as an aggregate of interstellar dust and DH-132A and SPH-4 helmets worn in combination with standard issue earplugs Dynamics of the central and peripheral circulation of further evidence for the photochemical formation of AD-A2630111 p 350 N93-29406 organics in the interstellar medium p 108 A93-17824 active rats on the first day of antiorthostatic hypokinesia p 242 A93-35261 HEAD (ANATOMY) (The role of training) p 242 A93-35261 Combined effect of head-down tilt and gamma rays on Thermal evolution of cometary nuclei by radioactive Skin temperature and heat flow of head-neck region heating and possible formation of organic chemicals p 196 A93-27561 under different ambient temperatures p 46 A93-16074 the higher nervous activity of rats p 242 A93-35262 HALOGEN COMPOUNDS The effects of brace position on injuries sustained in Body fluid alterations during head-down bed rest in men the M1 Boeing 737/400 disaster, January 1989 Anaerobic microbial transformation of aromatic at moderate altitude p 251 A93-35493 p 118 A93-25202 Effects of prolonged head-down bed rest hydrocarbons and mixtures of aromatic hydrocarbons and design Anthropometry for HMD halogenated solvents usina physiological responses to moderate hypoxia (AD-A255696) three-dimensional quantitative morphology p 251 A93-35494 p 42 N93-14557 p 229 A93-30069 HALOPHILES Microgravity and orthostatic intolerance - Carotid Comparison of membrane ATPases from extreme Improved head support stand adjustable by hemodynamics and peripheral responses compoundturnbuckle p 278 A93-39716 halophiles isolated from ancient salt deposits p 243 A93-36557 p 55 N93-15249 Response of genioglossus EMG activity to passive tilt men p 279 A93-41118 IAD-D0153841 HAND (ANATOMY) Behavioral effects of high peak power microwave pulses: Cerebral blood velocity and other cardiovascular A feasibility study of hand kinematics for EVA analysis Head exposure at 1.3 GHz using magnetic resonance imaging responses to 2 days of head-down tilt [AD-A258136] p 120 N93-17985 [SAE PAPER 921253] D 298 A93-41423 p 280 A93-41122 A new instrumentation system for measuring the Behavioral asymmetries of psychomotor performance Performance and mood-state parameters during 30-day dynamic response of the human head/neck during impact in rhesus monkeys (Macaca mulatta) - A dissociation 6 deg head-down bed rest with exercise training p 143 N93-19672 acceleration p 281 A93-41169 p 339 A93-44923 between hand preference and skill Upper interior head protection. Volume 1. The Bar-holding prosthetic limb INASA-CASE-MFS-28481-11 Influence of simulated microgravity on the maximal development of a research test procedure p 70 N93-14870 oxygen consumption of nontrained and trained rats p 194 N93-21537 IPB93-1137691 A comparison of hand grasp breakaway strengths and p 323 A93-42192 Upper interior head protection. Volume 2: Fleet bare-handed grip strengths of the astronauts, SML 3 test Correlation between the lymph dynamics and venous characterization and countermeasure evaluation pressure during short-term antiorthostatic effects subjects, and the subjects from the general population p 195 N93-21795 [PB93-113777] p 96 N93-16619 p 325 A93-43070 INASA-TP-32861 Methods for characterizing the human head for the Prevention of cumulative trauma disorders [PB93-188332] p 338 Quantitative EMG analysis in soleus and plantaris during design of helmets hindlimb suspension and recovery p 326 A93-44176 p 338 N93-31138 p 353 N93-29889 [AD-A263875] Changes in the central hemodynamics under **HEAD DOWN TILT** antiorthostasis in humans with different blood circulation Human factors design principles for instrument approach Effects of antimotion sickness drug mixture B on types and physical training levels p 359 A93-46967 procedure charts. Volume 1: Readability

ultrastructures of cerebral and cerebellar cortexes in

The effects of cephalad body fluid redistribution on the ultrastructure of the vestibular apparatus of guinea pig

suspended rabbits

p 10 A93-13704

p 4 A93-13717

p 379 A93-49221

Hemodynamic and hormonal correlates with exposure

to lower body negative pressure after 12 hours head-down

Hormonal responses during orthostasis following 4 hours

of head-down tilt

HEAD MOVEMENT SUBJECT INDEX

Cerebral blood flow velocity in humans exposed to 24	Space Station Freedom Environmental Health Care	Features of the effect of hypokinesia on cardiac activity
h of head-down till p 381 A93-49295	Program	in rats with high and low spontaneous motor activity
Evaluation of spontaneous baroreflex response after 28	[SAE PAPER 921138] p 292 A93-41325	p 240 A93-35224
days head down tilt bedrest p 386 A93-52404 Volume-homeostatic mechanisms in humans during a	Crew Health Care Systems installations for Space	The state of cardiac activity control in humans during
12-h posture change p 387 A93-52620	Station Freedom SAE PAPER 921249 p 298 A93-41420	cyclic changes of barometric pressure in a hermetic chamber p 251 A93-35257
Effect of aerobic capacity on Lower Body Negative	SAE PAPER 921249 p 298 A93-41420 A new test of scanning and monitoring ability: Methods	Incidence of cardiac dysrhythmias occurring during
Pressure (LBNP) tolerance in females	and initial results	centrifuge training p 384 A93-52297
[NASA-TP-3298] p 128 N93-20318	[AD-A249123] p 24 N93-10321	Publications of the Space Physiology and
HEAD MOVEMENT	Sustaining health and performance in the cold:	Countermeasures Program, Cardiopulmonary Discipline:
Predictable eye-head coordination during driving	Environmental medicine guidance for cold-weather	1980-1990
p 57 A93-16373 The perception of heading during eye movements	operation	NASA-CR-4475 p 123 N93-18376 Cardiopulmonary discipline science plan
p 99 A93-20692	A health care system for the Space Station	[NASA-TM-108040] p 125 N93-19648
The effects of head and sensor movement on flight	[NASA-TM-108093] p 65 N93-13571	HEART RATE
profiles during simulated dive bombing	Biomedical Polar Research Workshop Minutes	The responses of cardiovascular during head-up tilt plus
p 185 A93-27131	[NASA-TM-108026] p 81 N93-16799	lower body negative pressure p 9 A93-11690
Military aircrew head support system	NASA/NSF Workshop on Antarctic Research	Characteristics of heart rate response (HRR) in young
p 231 A93-31944 Linear vestibuloocular reflex during motion along axes	p 81 N93-16803	men during exercise p 10 A93-13706 EFfects of different inhalant O2 concentrations on
between nasooccipital and interaural	Infectious disease p 81 N93-16804 Long-duration isolation and confinement: Human factors	ventilatory and heart rate kinetic responses during
p 203 A93-32773	issues and research requirements p 100 N93-16808	exercise p 11 A93-13707
Response characteristics of the human torsional	The US Navy Healthy Back Program: Effect on back	Influence of graded dehydration on hyperthermia and
vestibuloocular reflex p 215 A93-32774	knowledge among recruits	cardiovascular drift during exercise p 44 A93-14971
Helmet slippage during visual tracking - The effect of	[AD-A258368] p 121 N93-18210	Rat cardiovascular responses to whole body suspension
voluntary head movements p 389 A93-49223 Eye-head-arm coordination and spinal reflexes in	Health effects of low-frequency electric and magnetic	- Head-down and non-head-down tilt p 37 A93-14974
weightlessness p 236 N93-24362	fields [DE93-005675] p 127 N93-19838	Cardiovascular adaptation to spaceflight p 86 A93-17550
Effects of area-of-interest display characteristics of	[DE93-005675] p 127 N93-19838 Environmental health discipline science plan	Functional state of the central nervous system of guinea
visual search performance and head movements in	[NASA-TM-108042] p 173 N93-21369	pigs after a prolonged stay in artificial atmospheres with
simulated low-level flight	Space human factors discipline science plan	different gas compositions p 75 A93-18287
[AD-A264661] p 341 N93-30542	[NASA-TM-108023] p 194 N93-21370	T wave changes in humans and dogs during
Transmission of vibration through the human body to	Crew health p 217 N93-22630	experimental dives p 92 A93-20026
the head: A summary of experimental data ISVR-TR-218 p 361 N93-32237	Tobacco and health of the pilot	Influence of viscous resistance on heart rate and oxygen
HEAD-UP DISPLAYS	[ETN-93-93693] p 217 N93-23414 Sustaining health and performance in the cold: A pocket	uptake during treadmill walking in water
Simulation and flight test evaluation of head-up-display	guide to environmental medicine aspects of cold-weather	p 94 A93-20898
guidance for Harrier approach transitions	operations	Long-range anticorrelations and non-Gaussian behavior of the heartbeat p 161 A93-28049
[AIAA PAPER 92-4233] p 28 A93-13331	[AD-A259625] p 218 N93-24021	Cardiopulmonary function during 10 days of head-down
HUD climb/dive ladder configuration and unusual	Potential human health effects associated with power	tilt bedrest p 162 A93-28683
attitude recovery p 185 A93-27129 Headphone localization of speech stimuli	frequency electric and magnetic fields	Assessing pilot workload - Why measure heart rate, HRV
p 176 A93-27143	PB93-132678 p 221 N93-24590 Achieving the promise of the bioscience revolution: The	and respiration? p 168 A93-28741
Colour head-up displays - Help or hindrance?	role of the Federal Government	Cardiovascular responses during recovery from exercise
p 187 A93-27154	[P893-139970] p 244 N93-25457	and thermal stress p 212 A93-30282
Head-up display standardization and the utility of analog	The application of integrated knowledge-based systems	Cardiac bioelectric activity in healthy men during a
vertical velocity information during instrument flight	for the Biomedical Risk Assessment Intelligent Network	370-day head-down tilt experiment p 247 A93-35208
p 189 A93-27451 Helmet-mounted systems technology planning for the	(BRAIN) p 258 N93-25595 HEALTH PHYSICS	The effect of G-experience on heart rate during +Gz
future p 227 A93-30052	Temporal analysis of the October 1989 proton flare using	loading p 333 A93-45322
Military aircrew head support system	computerized anatomical models p 216 A93-32785	Central cardiovascular pressures during graded water immersion in humans p 402 A93-55457
p 231 A93-31944	Transcutaneous Analyte Measuring Methods (TAMM),	Development and enhancement of a mode of
Benefits, limitations, and guidelines for application of	phase 2	performance and decision making under stress in a real
stereo 3-D display technology to the cockpit environment p 350 A93-44895	[AD-A256327] p 54 N93-15192	life setting
Selective factors affecting rotary wing aviator	Space radiation health program plan [NASA-TM-108036] p 123 N93-18375	[AD-A257796] p 123 N93-18363
performance with symbology superimposed on night vision	HEARING	Monitoring of cardiovascular parameters during the
goggles	Measurement and evaluation of blast overpressure	AustroMir space flight p 220 N93-24367
[AD-A254983] p 35 N93-12508	during F-15A crew station vulnerability assessment test	MAC to VAX connectivity: Heartrate spectral analysis system p 254 N93-25594
Flight director information and pilot performance in	[AD-A257152] p 104 N93-16033	system p 254 N93-25594 Portable equipment developed to estimate energy
instrument approaches [AD-A258186] p 131 N93-17857	An automated version of the dichotic listening test:	expenditure by simultaneous recording of heart rate and
Panoramic cockpit displays p 145 N93-19765	Hardware, software, and procedural details [AD-A258114] p 120 N93-17895	body position p 368 N93-32243
Attention factors associated with head-up display and	Measuring hearing protection device performance using	HEAT ACCLIMATIZATION
helmet-mounted display systems	the metrosonics db-3100 sound level analyzer	Application of contrasting temperatures as a method
[AD-A260204] p 235 N93-24001	(dosimeter)	of preadapting pilots to the conditions of a hot climate
Attitude awareness enhancements for the F-16 head-up display	[AD-A260852] p 265 N93-25787	p 45 A93-15166
AD-A260280 p 236 N93-24168	Programmable interactive system for cochlear implant electrode stimulation	The quality of an operator's work on a flight simulator under conditions of thermal discomfort
Oculo-motor responses and virtual image displays	[AD-A262558] p 333 N93-29421	p 45 A93-15172
p 319 N93-28862	HEART	Effect of heat acclimatization on cAMP level in plasma,
Utility of a ghost horizon and climb/dive ladder line	Heart and lung alterations in neonatal rats exposed to	cerebrospinal fluid and preoptic area-hypothalamus in
tapering on a head-up display	CO or high altitude p 77 A93-20027	hyperthermal rabbits p 199 A93-30437
AD-A264401 p 353 N93-30167 HEALING	Effect of cytoskeletal reagents on stretch activated ion	HEAT BALANCE
Time course of functional repair of the alveolar	channels [AD-A261089] p 245 N93-25764	Study of the functioning of the central and the peripheral
epithelium after hyperoxic injury p 78 A93-20032	HEART DISEASES	contours of the thermoregulation system using a
Healing of fractured bone in rats during readaptation	Long-range anticorrelations and non-Gaussian behavior	thermophysical model of the rabbit body p 111 A93-23075
following 14-day suspension p 241 A93-35260	of the heartbeat p 161 A93-28049	Influence of the Cold Buster (tm) sports bar on heat
HEALTH	Non-invasive evaluation of the cardiac autonomic	debt, mobilization and oxidation of energy substrates
The prospects for the improvement of medical	nervous system by PET	[AD-A262762] p 285 N93-28939
monitoring of the health of flight personnel in a military	[DE92-041077] p 96 N93-16441 Correlation of life-style and dietary concomitants of	HEAT EXCHANGERS
unit p 10 A93-12969	Greek pilots with serum analytes p 369 N93-32256	Tests characterizing bioprocessor hardware for
Living and working in space - Evolution of nursing in a new environment p 166 A93-28710	HEART FUNCTION	analytical modeling
Health services at the Kennedy Space Center	Posture and the circulation - The age effect	[SAE PAPER 921357] p 307 A93-41516
p 154 A93-28711	p 93 A93-20653	Space Station Condensing Heat Exchanger biofilm formation and control evaluation
Kennedy Space Center environmental health program	Cardiovascular responses to lower body negative	[SAE PAPER 921383] p 308 A93-41541
ρ 166 A93-28713	pressure in trained and untrained older men	HEAT FLUX
11 115 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 115 A93-21686	
Health in space - And on Earth p 156 A93-28738	p 115 A93-21686 Intracardiac hemodynamics in man during short periods	The efficiency of thermoregulatory responses in the
Longitudinal study of astronaut health - Mortality in the	Intracardiac hemodynamics in man during short periods of head-down and head-up tilt p 117 A93-24044	The efficiency of thermoregulatory responses in the cooling of the organism p 325 A93-43136
Longitudinal study of astronaut health - Mortality in the years 1959-1991 p 216 A93-32783	Intracardiac hemodynamics in man during short periods of head-down and head-up tilt p 117 A93-24044 The rhythm of heart activity and arrhythmia in long-term	The efficiency of thermoregulatory responses in the cooling of the organism p 325 A93-43136 HEAT PIPES
Longitudinal study of astronaut health - Mortality in the years 1959-1991 p 216 A93-32783 Comparison of spinal health indicators in predicting	Intracardiac hemodynamics in man during short periods of head-down and head-up tilt p 117 A93-24044 The rhythm of heart activity and arrhythmia in long-term space flights p 119 A93-25652	The efficiency of thermoregulatory responses in the cooling of the organism p 325 A93-43136 HEAT PIPES An innovative method for hand protection from extreme
Longitudinal study of astronaut health - Mortality in the years 1959-1991 p 216 A93-32783	Intracardiac hemodynamics in man during short periods of head-down and head-up tilt p 117 A93-24044 The rhythm of heart activity and arrhythmia in long-term	The efficiency of thermoregulatory responses in the cooling of the organism p 325 A93-43136 HEAT PIPES

HELMETS SUBJECT INDEX

SUBJECT INDEX		HELMEIS
HEAT PUMPS	HELICOPTER CONTROL	Law seet only LCD holmet display
Thermal control systems for low-temperature heat	Preclinical cardiovascular and neurological	Low-cost color LCD helmet display p 228 A93-30062
rejection on a lunar base	occupation-related pathological symptoms in helicopter	Intensified CCD sensor applications for helmet-mounted
[NASA-CR-191286] p 65 N93-13717	pilots p 91 A93-18416	displays p 228 A93-30064
HEAT RADIATORS Preliminary design of a radiator shading device for a	Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays	Quick-disconnect harness system for helmet-mounted
lunar outpost	p 311 N93-27177	displays p 228 A93-30065
[NASA-CR-192016] p 139 N93-18019	HELICOPTER PERFORMANCE	Advances in miniature projection CRTs for helmet displays p 229 A93-30066
HEAT SOURCES	The relationship between computer scoring and	Comparison of CRT display measurement techniques
An innovative method for hand protection from extreme	safety-pilot grading of flight performance [AD-A256245] p 58 N93-14600	/ p 229 A93-30067
cold using heat pipe [AD-A259720] p 235 N93-24128	HELICOPTERS	Quantitative Helmet Mounted Display system image
HEAT STROKE	Safety concerns as a factor in pilot desire to change	quality model p 229 A93-30068
Tissue-specific noradrenergic activity during acute heat	aircraft p 129 A93-24040	Anthropometry for HMD design using
stress in rats p 323 A93-42193	The physiological consequences of simulated helicopter flight in NBC protective equipment p 117 A93-24049	three-dimensional quantitative morphology p 229 A93-30069
HEAT TOLERANCE	Back ache in helicopter pilots p 382 A93-49566	Evaluation of conformal and body-axis attitude
Thermal convergence fails to predict heat tolerance fimits p 8 A93-10331	Fatal mishap report - First SPH-4B flight helmet	information for spatial awareness p 229 A93-30070
Preliminary study on the physiological changes and	recovered from a U.S. Army helicopter mishap	Predictive nosepointing and flightpath displays for
tolerance in ground squirrels under several specific	p 393 A93-52308	air-to-air combat p 229 A93-30071
experimental conditions p 2 A93-13532	Selective factors affecting rotary wing aviator performance with symbology superimposed on night vision	Looks can kill helmet mounted displays, military avionics p 231 A93-31626
The optimum design of personal liquid cooling system	goggles	Compensating lags in head-coupled displays using head
p 60 A93-14314	[AD-A254983] p 35 N93-12508	position prediction and image deflection
The physiological consequences of simulated helicopter	Human factors research in aircrew performance and	p 231 A93-31782
flight in NBC protective equipment p 117 A93-24049 The effect of wearing protective chemical warfare	training: 1986-1991 [AD-A254455] p 63 N93-12609	Timing considerations of Helmet Mounted Display
combat clothing on human performance	Design guide for the ergonomic aspects of helicopter	performance p 233 A93-33449 Visual search in virtual environments
p 230 A93-30287	crew seating	p 233 A93-33450
Effect of heat acclimatization on cAMP level in plasma,	[ISVR-TR-209] p 65 N93-13464	Helmet Mounted Display symbology integration
cerebrospinal fluid and preoptic area-hypothalamus in	The use of voice processing for some aspects of the	research p 263 A93-35914
hyperthermal rabbits p 199 A93-30437	pilot-vehicle-interface in an aircraft p 146 N93-19772 CVA, cockpit design and development tool	Flight mechanics of high-performance aircraft [ISBN 0-521-34123-X] p 365 A93-47019
Influence of temperature and metabolic rate on work performance with Canadian Forces NBC clothing	p 147 N93-19780	A computational model for the stereoscopic optics of
nuclear, biological, and chemical assault protective	Equipment, more or less ready to be used in	a head-mounted display p 390 A93-49393
garments p 389 A93-49218	helicopters p 148 N93-19785	In-simulator assessment of trade-offs arising from
Continuous vs. intermittent work with Canadian forces	Helicopter night vision goggle testing in the United Kingdom p 148 N93-19917	mixture of color cuing and monocular, binoptic, and
NBC clothing nuclear, biological, and chemical assault	Helicopter simulation: An aircrew training and	stereopsis cuing information p 407 A93-52916 A low cost helmet-mounted camera/display system for
protective garments p 389 A93-49219	qualification perspective p 342 N93-30676	field testing teleoperator tasks p 408 A93-53122
Nocturnal pituitary hormone and renin profiles during chronic heat exposure p 387 A93-52619	Training effectiveness assessment: Where are we?	Advanced technology for portable personal
The effects of wearing protective chemical warfare	p 342 N93-30679	visualization
combat clothing on human performance	Current training: Where are we? p 342 N93-30680 Training effectiveness assessment: Methodological	[AD-A253808] p 32 N93-11783
[AD-A250716] p 35 N93-12491	problems and issues p 342 N93-30684	Selective factors affecting rotary wing aviator performance with symbology superimposed on night vision
Thermal stress in US Air Force operations	Application and validation of workload assessment	goggles
[AD-A255785] p 51 N93-14027	techniques	[AD-A254983] p 35 N93-12508
Physiological stress from chemical defense clothing and	[AD-A264575] p 366 N93-32012 HELIUM	Helmet-mounted area-of-interest display
equipment [AD-A255786] p 51 N93-14028	Control of breathing under conditions of altered	[AD-A258275] p 139 N93-18029 Developing virtual cockpits p 145 N93-19764
Ventilation loss in the NASA Space Shuttle crew	atmospheric density during muscular work	Panoramic cockpit displays p 145 N93-19765
protective garments: Potential for heat stress	p 89 A93-18288	A new concept for helmet mounted vision
[AD-A258552] p 148 N93-19955	HELIUM ISOTOPES Potential of derived lunar volatiles for life support	p 145 N93-19767
Effects of microclimate cooling on physiology and performance while flying the UH-60 helicopter simulator	p 67 N93-13998	The MOD (UK) integrated helmet technical demonstrator programme p 145 N93-19769
in NBC conditions in a controlled heat environment	HELIUM-NEON LASERS	Comparative evaluation of a monocular head mounted
[AD-A258502] p 129 N93-20400	Validation of the use of the helium-neon laser in the	display device versus a flat screen display device in
Evaluation of two microclimate cooling air vests on a	medical rehabilitation of patients with atrophy	presenting aircraft maintenance technical data
heated mannequin [AD-A259410] p 194 N93-21269	p 248 A93-35228 HELIUM-OXYGEN ATMOSPHERES	AD-A259684 p 234 N93-23660 In-flight field-of-view with ANVIS
AFTERRISE: Deep body temperature following	Peroxidative oxidation of lipids and chromosome	[AD-A259905] p 235 N93-23992
exercise	aberrations in mice after repeated exposures to a	Attention factors associated with head-up display and
[AD-A259887] p 218 N93-23984	helium-oxygen respiration mixture under hyperbaric	helmet-mounted display systems
Effects on physiology and performance of wearing the	conditions p 243 A93-35672 HELMET MOUNTED DISPLAYS	AD-A260204 p 235 N93-24001
aviator NBC ensemble while flying the UH-60 helicopter flight simulator in a controlled heat environment	Simulator sickness experience in simulators equipped	Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays
[AD-A259909] p 235 N93-23995	with fiber optic helmet mounted display systems	p 311 N93-27177
Evaluation of personal cooling systems in conjunction	[AIAA PAPER 92-4135] p 136 A93-24490	Low-cost helmet-mounted displays
with explosive ordnance disposal suits [AD-A262862] p 350 N93-29471	Large-screen-projection, avionic, and helmet-mounted displays; Proceedings of the Meeting, San Jose, CA, Feb.	AD-A262616 p 317 N93-28479 Head-steered sensor flight test results and
HEAT TRANSFER	26-28, 1991	Head-steered sensor flight test results and implications p 318 N93-28859
Limited heat transfer between thermal compartments	[SPIE-1456] p 181 A93-26881	The quest for an integrated flying helmet
during rewarming in vasoconstricted patients	Designing the right visor p 181 A93-26885	p 319 N93-28860
p 88 A93-18036	Methods for test and evaluation of night vision goggle	Oculo-motor responses and virtual image displays
Tests characterizing bioprocessor hardware for analytical modeling	integrated helmets p 188 A93-27182 Helmet-mounted displays III; Proceedings of the	p 319 N93-28862 Head mounted displays for virtual reality
[SAE PAPER 921357] p 307 A93-41516	Meeting, Orlando, FL, Apr. 21, 22, 1992	[AD-A263498] p 322 N93-29340
ASDA - Advanced Suit Design Analyzer computer	SPIE-1695 p 227 A93-30051	Integration of advanced teleoperation technologies for
program	Helmet-mounted systems technology planning for the	control of space robots p 366 N93-32107
[SAE PAPER 921381] p 308 A93-41539	future p 227 A93-30052 Helmet-mounted systems test and evaluation process	HELMETS
An innovative method for hand protection from extreme cold using heat pipe	p 227 A93-30053	Flight helmet weight, +Gz forces, and neck muscle strain p 136 A93-24046
[AD-A259720] p 235 N93-24128	I-NIGHTS and beyond Interim-Night Integrated	Helmet slippage during visual tracking - The effect of
Lunar base thermal management/power system	Goggle and Head Tracking System p 227 A93-30054	voluntary head movements p 389 A93-49223
analysis and design p 315 N93-27985	The advent of helmet-mounted devices in the combat	Fatal mishap report - First SPH-4B flight helmet
HEATING Limited heat transfer between thermal compartments	aircraft cockpit - An operator's viewpoint p 227 A93-30056	recovered from a U.S. Army helicopter mishap p 393 A93-52308
during rewarming in vasoconstricted patients	Helmet mounted display with multiple image sources	Protective helmet assembly
p 88 A93-18036	p 227 A93-30057	[NASA-CASE-MSC-21842-1] p 106 N93-17088
Comparison of four noninvasive rewarming methods for	Color helmet display for the tactical environment - The	The MOD (UK) integrated helmet technical demonstrator
mild hypothermia p 88 A93-18037	pilot's chromatic perspective p 227 A93-30058 Helmet-mounted display for the night attack mission	programme p 145 N93-19769 Multi-function visor p 146 N93-19770
HEAVY IONS Accelerated heavy particles and the lens. VIII -	p 228 A93-30059	Multi-function visor p 146 N93-19770 Helmeted head and neck dynamics under whole-body
Comparisons between the effects of acute low doses of	Helmet-mounted area of interest p 228 A93-30060	vibration p 264 N93-25531
iron ions (190 keV/microns) and argon ions (88	Low-cost monochrome CRT helmet display	The quest for an integrated flying helmet
keV/microns) p 216 A93-32784	p 228 A93-30061	p 319 N93-28860

HEMATOLOGY SUBJECT INDEX

Sound attenuation characteristics of the standard Operation Everest II - Spirometric and radiographic HETEROCYCLIC COMPOUNDS DH-132A and SPH-4 helmets worn in combination with Changes of cAMP and cGMP content in plasma and changes in acclimatized humans at simulated high standard issue earplugs p 383 A93-49574 urine before and after parallel swing stimulation p 213 A93-30435 [AD-A263011] p 350 N93-29406 Acute hypertensive response to 1 Gz acceleration in Helmet visor support apparatus HEURISTIC METHODS mildly hypertensive pilots p 386 A93-52307 IAD-D0156841 p 351 N93-29606 Measures of user-system interface effectiveness: Pulmonary diffusing capacity, capillary blood volume, Methods for characterizing the human head for the Assessment of structured judgment evaluation techniques and cardiac output during sustained microgravity
p 386 A93-52617 design of helmets for graphical, direct-manipulation style interfaces IAD-A2638751 p 353 N93-29889 AD-A2544931 p 63 N93-12576 Volume-homeostatic mechanisms in humans during a HEMATOLOGY Formal aspects of human-computer interaction 12-h posture change p 387 A93-52620 p 66 N93-13909 Hematological changes in space microgravity Central cardiovascular pressures during graded water p 46 A93-15528 environments Specification of adaptive aiding systems immersion in humans p 402 A93-55457 AD-A263071 Acceleration-induced effects baboon p 314 N93-27927 on blood HEMODYNAMICS chemistry p 376 A93-49224 HIBERNATION Role of atrial natriuretic peptide in systemic responses Investigation of effects of 60-Hz electric and magnetic The role of dermorphin in the regulation of the winter p 44 A93-14968 fields on operant and social behavior and on the to acute isotonic volume expansion hibernation processes in mammals p 38 A93-16748 neuroendocrine system of nonhuman primates, part 1 [DE92-040152] p 41 N93-13520 Effects of simulated microgravity (HDT) on blood Vagotropic effects of peptides isolated from the brain [DE92-040152] p 44 A93-14972 of hibernating susliks p 38 A93-16749 JPRS report: Science and technology. Central Eurasia: Development of lower body negative pressure as a Role of the central nervous system in the control of Life sciences countermeasure for orthostatic intolerance hybernation p 378 A93-51025 [JPRS-ULS-92-022] p 253 N93-25407 HIGH ACCELERATION p 83 A93-17529 Fundamental diagnostic hematology: Anemia (second Myocardial infarction occurring at the conclusion of Cerebral blood flow during + Gz acceleration as edition) centrifuge training in a 37-year-old aviator measured by transcranial Doppler p 84 A93-17532 [PB93-188662] p 338 N93-31140 p 89 A93-18044 Acute hemodynamic response to weightlessness during Fundamental diagnostic hematology: The bleeding and HIGH ALTITUDE p 86 A93-17547 parabolic flight clotting disorders (second edition) Cognitive performance and event-related brain Effects of head down tilt on hepatic circulation and [PB93-188670] p 338 N93-31158 potentials under simulated high altitudes metabolism in conscious dogs p 80 A93-20899 **HEMATOPOIESIS** p 331 A93-42189 Wall shear stress estimates in coronary artery Hematologic status of rats born and grown in a ypergravity environment p 239 A93-35212 Cognitive function at high altitude p 386 A93-52505 p 170 A93-28759 constrictions hypergravity environment Beta-adrenergic blockade and lactate metabolism during hemodynamics Investigation of and A comparative analysis of the bone marrow cell exercise at high altitude sympatheticoadrenal system activity in air traffic controllers composition in rats following a long-duration continuous p 334 N93-29820 LAD-A263544 I during their work p 247 A93-35209 or interrupted exposure to a hypogeomagnetic field HIGH ALTITUDE BREATHING p 240 A93-35213 Body fluid alterations during head-down bed rest in men Effects of a 1-yr stay at altitude on ventilation, p 251 A93-35493 Immune and physiological mechanisms of hypoxic at moderate altitude metabolism, and work capacity p 92 A93-20028 p 384 A93-51116 Effects of prolonged head-down bed rest on Respiratory changes and structure of sleep in young **HEMODYNAMIC RESPONSES** high-altitude dwellers in the Andes of Peru physiological responses to moderate hypoxia p 251 A93-35494 The responses of cardiovascular during head-up tilt plus p 383 A93-49569 lower body negative pressure p 9 A93-11690 Operation Everest II - Spirometric and radiographic Hemodynamic and hormonal correlates with exposure Preliminary observation of influences of three forms of changes in acclimatized humans at simulated high to lower body negative pressure after 12 hours head-down simulated weightlessness on hemorheological p 379 A93-49220 altitudes p 383 A93-49574 characteristics in rabbit HIGH ALTITUDE ENVIRONMENTS A93-13538 Transcapillary fluid responses to lower body negative Intracardiac hemodynamics in man during short periods head-down and head-up tilt p 117 A93-24044 p 380 A93-49292 Effects of hypoxemia at sea level and high altitude on pressure of head-down and head-up tilt sodium excretion and hormonal levels p 8 A93-10332 Cerebral blood flow velocity in humans exposed to 24 The effects of variations in the anti-G straining maneuver Psychophysiological studies of acute hypoxic hypoxia p 381 A93-49295 h of head-down tilt on blood pressure at +Gz acceleration Acquisition of physiological data during G-induced Loss p 91 A93-18417 p 118 A93-25204 of Consciousness (G-LOC) [AD-A264492] Energy expenditure climbing Mt. Everest Blood volume reduction counteracts fluid shifts in water p 92 A93-20031 p 335 N93-30400 Effects of simulated high altitude exposure on immersion p 118 A93-25206 **HEMOGLOBIN** Enhanced carotid-cardiac barorellex response and long-latency event-related brain potentials Dynamic characteristic of changes of oxygen saturation elimination of orthostatic hypotension 24 hours after acute performance p 117 A93-24042 of blood hemoglobin under conditions of acute hypoxia p 91 A93-19993 Operation Everest II - Gas tensions in expired air and exercise in paraplegics p 216 A93-32781 in human body Hemodynamic status of humans during a graded arterial blood at extreme altitude p 117 A93-24043 Age-related changes in hemoglobin and erythrocyte evels p 250 A93-35250 Interactions between Hb, Mg, DPG, ATP, and CI High-altitude pulmonary edema with pulmonary gromboembolism p 278 A93-39709 orthostatic test p 248 A93-35221 Diurnal rhythmicity of human orthostatic stability thromboembolism determine the change in Hb-O2 affinity at high altitude p 250 A93-35253 Effects of acute hypoxia on intracranial dynamics in nanesthetized goats p 326 A93-44177 Renal hemodynamics, tubular function, and response p 279 A93-41117 unanesthetized goats The state of cardiac activity control in humans during Systemic and pulmonary hypertension after resuscitation cyclic changes of barometric pressure in a hermeti to low-dose dopamine during acute hypoxia in humans with cell-free hemoglobin chamber p 251 A93-35257 [AD-A258185] p 120 N93-17900 p.332 A93-44180 Hemodynamics in monkeys during antiorthostatic Effects of high altitudes on finger cooling test in 13 C NMR spectra of allosteric effectors of hypokinesia at angles of -6 and -20 deg Japanese and Tibetans at Qinghai Plateau p 241 A93-35259 hemoglobin p 382 A93-49560 p 284 N93-28293 I AD-A262979 I Dynamics of the central and peripheral circulation of Reduction of postprandial lipemia after acute exposure HEMORRHAGES active rats on the first day of antiorthostatic hypokinesia (The role of training) p 242 A93-35261 to high altitude hypoxia p 382 A93-49567 Case report - Chronic sub-dural hematoma following Hemodynamic effects of altitude exposure and oxygen p 282 A93-41171 high-speed ejection Changes in the brain blood flow and respiration during Effect of hemorrhage on cardiac output, vasopressin, administration in chronic obstructive pulmonary disease psychoemotional stress p 252 A93-36723 aldosterone, and diuresis during immersion in men p 383 A93-49571 Microgravity and orthostatic intolerance - Carotid The Environmental Symptoms Questionnaire (ESQ): INASA-TM-103949 I p 6 N93-12014 hemodynamics and peripheral responses Development and application Systemic and pulmonary hypertension after resuscitation p 278 A93-39716 I AD-A264127 | p 335 N93-30196 with cell-free hemoglobin Orthostatic intolerance during a 13-day bed rest does HIGH ALTITUDE TESTS p 120 N93-17900 IAD-A258185 I not result from increased leg compliance Functional state of the vegetative nervous system in p 280 A93-41119 p 112 A93-24047 Animal surgery in microgravity women undergoing high-altitude adaptation and readaptation to 760 m above sea level Minimal hypoxic pulmonary hypertension in normal Fundamental diagnostic hematology: The bleeding and Tibetans at 3,658 m p 280 A93-41121 clotting disorders (second edition) p 44 A93-15165 HIGH ELECTRON MOBILITY TRANSISTORS IPB93-188670| p 338 N93-31158 Cerebral blood velocity and other cardiovascular Wide-bandwidth high-resolution **HEPATITIS** responses to 2 days of head-down tilt extraterrestrial intelligence p 280 A93-41122 Clinical types of Hepatitis B p 15 N93-11286 [NASA-CR-191618] p 110 N93-15825 Viral hepatitis in the US Air Force, 1980 - 1989 Body fluid compartments, renal blood flow, and p 15 N93-11287 Wide-bandwidth high-resolution search hormones at 6,000 m in normal subjects extraterrestrial intelligence Hepatitis A and Hepatitis B. Risks compared to other p 281 A93-41125 [NASA-CR-193137] p 322 N93-28895 vaccine preventable diseases and immunization Effects of dynamic exercise on cardiovascular regulation p 15 N93-11288 HIGH ENERGY ELECTRONS recommendations during lower body negative pressure Vaccination against Hepatitis B: The Italian strategy p 15 N93-11289 Utilization of high energy electron beam in the treatment p 281 A93-41168 of drinking and waste water Effects of acute hypoxia on intracranial dynamics in Communicable diseases: A major burden of morbidity IDE92-6423351 p 372 N93-32406 unanesthetized goats p 326 A93-44177 HIGH GRAVITY ENVIRONMENTS and mortality p 18 N93-11300 Functional and structural adaptation of the yak Immunization of personnel traveling to a destination in Accuracy of aimed arm movements in changed gravity pulmonary circulation to residence at high altitude tropical countries: French position p 19 N93-11304 p 56 A93-16159 p 326 A93-44181 Reclined seating in advanced crewstations - Human HERMES MANNED SPACEPLANE Changes in the central hemodynamics under Hermes ECLSS - Main requirements and technical performance considerations p 186 A93-27151 antiorthostasis in humans with different blood circulation Hematologic status of rats born and grown in a ypergravity environment p 239 A93-35212 solutions types and physical training levels p 359 A93-46967 [SAE PAPER 921400] p 309 A93-41555 hypergravity environment

The European astronauts training programme

p 226 N93-24346

Image technology and information analysis of bone

p 378 A93-49177

change with gravitational exposure

head-up tilt in humans

Effect of food intake on skin vasomotor responses to

p 379 A93-49180

HUMAN BODY

SUBJECT INDEX Effects of unilateral selective hypergravity stimulation Mechanically induced alterations in cultured skeletal Preliminary analysis of sensory disturbances and p 202 A93-32749 on gait p 386 A93-52407 muscle growth behavioral modifications of astronauts in space 27 years armed forces aerospace pathology and HIGH PRESSURE n 130 A93-25207 toxicology in the Federal Republic of Germany: Motor activity of animals under elevated pressure Human Factors Society, Annual Meeting, 35th, San Development, current status, trends and challenges p 75 Francisco, CA, Sept. 2-6, 1991, Proceedings. Vols. 1 & 2 Local blood supply of the brain of guinea pigs developing the high-pressure neural syndrome p 76 A93-18293 Polyphosphoinositide response to various p 126 N93-19696 p 185 A93-27126 Significance of histological postmortem findings in pilots Behavioral validation of a hazardous thought pattern killed in military and civil aircraft accidents in Germany p 176 A93-27142 instrument neurotransmitters after an exposure to a helium-oxygen p 176 A93-27169 (West): A 25-year-review p 126 N93-19697 Crew performance in Spacelab atmosphere at a high pressure p 76 A93-18296 Neurobehavioral test in civil aviation flight personnel Parameters of external breathing in an excess-pressure Aviation medicine research: A historical review p 223 A93-30443 p 121 N93-18217 p 76 A93-18298 atmosphere IAD-A2581981 Effects of their nutrient precursors on the synthesis and Electrophysiological and ultrastructural aspects of the HOLES (MECHANICS) release of serotonin, the catecholamines and effect of high-pressure oxygen on the sensomotor cortex Evaluation of hole sizes in structures requiring EVA acetylcholine - Implications for behavioral disorders p 77 A93-18300 of the rat brain services as a means to prevent gloved-hand finger p 204 A93-33033 On a possible role of carbon dioxide in the genesis of entrapment Human behavior in virtual environments the hyperbaric neural syndrome INASA-TM-1047671 p 234 N93-23129 p 233 A93-33447 p 200 A93-31190 Evoked brain potentials as indicators of a central nervous HOLOGRAPHY Psychophysiological principles of flight training for mpairment in a simulated saturation dive to 560 m A new concept for helmet mounted vision p 256 A93-35233 actions in nonroutine situations p 145 N93-19767 IDLR-FB-92-14 I p 219 N93-24093 Motion sickness susceptibility and behavior Hydrogen-rated system for in vitro studies at pressure: HOMEOSTASIS p 405 A93-55948 Effects of head-down tilt and saline loading on body Operating procedures and emergency procedures The locator system for wandering individuals p 31 N93-11649 IAD-A2641791 weight, fluid, and electrolyte homeostasis in man p 336 N93-30882 [NASA-TM-104754] HIGH RESISTANCE p 163 A93-28685 The next generation female in cockpit: Do we need a The role of serotonin and histamine in increasing the Investigation of fluid-electrolyte metabolism and its new approach to cockpit resource management (CRM)? resistance of the organism to certain extreme condition hormonal regulation during the second joint Soviet-French p 143 N93-19704 p 247 A93-35207 p 324 A93-43034 space mission Gremlins: A dozen hazardous thought and behavior HIGH RESOLUTION The state of cardiac activity control in humans during p 134 N93-19709 patterns as risk factors High-resolution inserts in wide-angle head-mounted cyclic changes of barometric pressure in a hermetic Instructions and advance training measures for the p 251 A93-35257 chamber stereoscopic displays p 408 A93-53121 improvement of human reliability HIGH SPEED Volume-homeostatic mechanisms in humans during a [MBB-FE-313-S-PUB-0500] p 181 N93-21402 p 387 A93-52620 12-h posture change Mathematics and biology: The interface, challenges and Why do we see three-dimensional objects? opportunities IAD-A2598921 p 224 N93-23986 IDE92-0412071 p 82 N93-17359 Utility of a ghost horizon and climb/dive ladder line Method of encouraging attention by correlating video HIGH TEMPERATURE ENVIRONMENTS game difficulty with attention level [NASA-CASE-LAR-15022-1] tapering on a head-up display AD-A264401 | Application of contrasting temperatures as a method p 353 N93-30167 p 288 N93-28128 of preadapting pilots to the conditions of a hot climate HORMONE METABOLISMS Theory of signal detection and its application to visual Effects of hypoxemia at sea level and high altitude on p 45 A93-15166 target acquisition: A review of the literature Bacterial sulfate reduction above 100 C in deep-sea sodium excretion and hormonal levels p 8 A93-10332 [AD-A262920] p 288 N93-28307 hydrothermal vent sediments p 80 A93-20672 Operation Everest II - Metabolic and hormonal Visualization techniques for analyzing control of human Life in hot springs and hydrothermal vents responses to incremental exercise to exhaustion movement: Affine mappings between multi-dimensional p 243 A93-36559 p 115 A93-21685 spaces p 353 N93-30204 Deep-sea smokers - Windows to a p 397 subsurface A93-53284 Simulated weightlessness and hone metabolism -The clearance test: A computer generated process for Gravitational stimulation enhances insulin sensitivity biosphere? acquisition of auditive short term sensitivity Aqueous high-temperature and high-pressure organic p 168 A93-28736 p 343 Vascular uptake of rehydration fluids in hypohydrated geochemistry of hydrothermal vent systems Nutritional and lifestyle status of 50 pilots of the A93-53285 men at rest and exercise p 397 Portugese Air Force p 369 N93-32255 p 255 N93-26133 Hydrothermal dehydration aqueous organic p 397 A93-53291 JNASA-TM-103942 J HUMAN BEINGS HORMONES compounds Effect of hypoxic hypoxia on the immune response and AFTERRISE: Deep body Principles of the organization of calcium metabolism temperature following some factors of nonspecific resistance of human and exercise p 7 A93-10124 animal organisms p 325 A93-43074 IAD-A2598871 Influence of stress on lymphocyte subset distribution p 218 N93-23984 Human exposure to galactic cosmic rays in space The effects of cockpit heat on aviator sleep A flow cytometric study in young student pilots p 410 A93-54887 p 371 N93-32266 parameters p 118 A93-25203 A prospective evaluation of stress fractures/overuse HIGH TEMPERATURE FLUIDS Melatonin in human preovulatory follicular fluid injuries in a population of West Point cadets to a subsurface p 397 A93-53284 p 215 A93-32474 Melatonin concentrations in the sudden infant death p 13 N93-10709 Deep-sea smokers - Windows biosphere? Molecular cytogenetics: A novel approach for measuring Aqueous high-temperature and high-pressure organic p 203 A93-33030 chromosome translocations in individuals years after geochemistry of hydrothermal vent systems exposure to low levels of ionizing radiation The pineal gland - Its possible roles in human p 397 A93-53285
HIGHLY MANEUVERABLE AIRCRAFT
Computational traces reproduction p 204 A93-33036 p 5 N93-10974 I DE92-018066 I Investigation of fluid-electrolyte metabolism and its Absence of protective immunity against diphtheria in a large proportion of young adults Computerized teaching of pilots to spatial orientation hormonal regulation during the second joint Soviet-French p 18 N93-11302 space mission p 404 A93-52694 Effect of hemorrhage on cardiac output, vasopressin, **HIPPOCAMPUS** Effects of 28-day isolation (ESA-ISEMSI'90) on blood aldosterone, and diuresis during immersion in men NASA-TM-103949 p 6 N93-12014 Role of the central nervous system in the control of pressure and blood volume regulating hormones p 251 A93-35495 hybernation p 378 A93-51025 Assessment of programs in space biology and Extrathalmic modulation of cortical function Absence of a growth hormone effect on rat soleus rophy during a 4-day spaceflight p 272 A93-40548 atrophy during a 4-day spaceflight INASA-CR-190930 IAD-A2554401 p 53 N93-14782 p 41 N93-13327 Hemodynamic and hormonal correlates with exposure Environmental health discipline science plan Multiple neuron recording in the hippocampus of freely moving animals to lower body negative pressure after 12 hours head-down [NASA-TM-108042] p 173 N93-21369 p 379 A93-49220 IAD-A2648071 p 330 N93-30594 Adaptive filters for monitoring localized brain activity from HISTAMINES Hormonal responses during orthostasis following 4 hours surface potential time series Reaction characteristics of several neuroregulating p 379 A93-49221 [DE93-003795] p 217 N93-22774 of head-down tilt systems of cosmonauts after a 366-day-long space flight literacy evaluator: Molecular approach to hypothalamic rhythms The adult An intelligent p 45 A93-15167 p 335 N93-30421 computer-aided training system for diagnosing adult IAD-A2644381 p 258 N93-26082 Neuropharmacology of motion sickness and emesis illiterates HORN ANTENNAS A review Vascular uptake of rehydration fluids in hypohydrated p 271 A93-39711 Wide-bandwidth high-resolution search The role of serotonin and histamine in increasing the en at rest and exercise extraterrestrial intelligence INASA-TM-1039421 p.255 N93-26133 resistance of the organism to certain extreme conditions INASA-CR-1931371 p 322 N93-28895 p 324 A93-43034 Contribution of personality to the prediction of success HOSPITALS HISTIDINE in initial air traffic control specialist training Micro-organisms, cytotoxins and radioactive Neurochemical control of circadian rhythms p 259 N93-26138 LDOT/FAA/AM-93/41 preparation: Risks at rescue operations in hospital p 50 N93-13116 [AD-A255054] Comparative mutagenesis of human cells in vivo and environment HISTOCHEMICAL ANALYSIS p 359 N93-32423 in vitro [FOA-A-40065-4.5] Histochemical and contractile responses of rat medial I DE93-0122691 p 276 N93-28651 HUMAN BEHAVIOR gastrocnemius to 2 weeks of complete disuse Sudden loading and fatigue effects on the human p 157 A93-28752 Subjective and behavioral effects associated with snine repeated exposure to narcosis p 7 A93-10327 Effect of hindlimb unweighting on single soleus fiber [PB93-167526] p 286 N93-29199 Contribution of psychiatry to life in space maximal shortening velocity and ATPase activity **HUMAN BODY** p 56 A93-15529 p 377 A93-49294 Development of K.E. Tsiolkovsky's ideas on the Psychiatric diagnoses aboard an aircraft carrier interaction between space, nature, and man p 57 A93-16162 A method of multivariate analysis of data in the study p 90 A93-18408 of the effects of space flight factors on the rat brain neuron K.E. Tsiolkovsky on individual time perception and some The problem of oxygen regimen in extreme conditions p 155 A93-28727 characteristics of intuitive perception of the properties of p 160 A93-27685 Distinguishing unloading- versus reloading-induced time at different levels of motor activity and health Human-like agents with posture planning ability

p 98 A93-18413

changes in rat soleus muscle

p 157 A93-28763

p 192 A93-29118

HUMAN CENTRIFUGES SUBJECT INDEX

Alomic structure and chemistry of human serum Helmet-mounted displays III; Proceedings of the Development of the Personnel-based System Evaluation Aid (PER-SEVAL) performance shaping functions albumin p 200 A93-31628 Meeting, Orlando, FL, Apr. 21, 22, 1992 New techniques for positron emission tomography in p 227 A93-30051 IAD-A2528201 the study of human neurological disorders Direct manipulation and intermittent automation in The realities of using visually coupled systems for training [DE92-015353] p 23 N93-11873 advanced cockpits applications p 228 A93-30063 Methodology issues concerning accuracy of IAD-A2538141 p 32 N93-11784 Compatibility and consistency in display-control systems kinematic data collection and analysis using the ariel Evaluation of multilayer mask concept for RESPO 21 - Implications for aircraft decision aid design performance analysis system p 33 N93-12079 LAD-A2533921 p 230 A93-30454 I NASA-CR-1856891 p 34 N93-12211 Human performance in complex task environments: A Human factor considerations for the First Lunar Studies of a laser/nuclear thermal hardened body basis for the application of adaptive automation Outpost I AD-A255067 I p 35 N93-12486 IAIAA PAPER 93-10141 p 223 A93-30928 I AD-A255128 I p 34 N93-12423 Measures of user-system interface effectiveness: Military aircrew head support system Assessment of programs in space biology and Assessment of structured judgment evaluation techniques p 231 A93-31944 medicine for graphical, direct-manipulation style interfaces [NASA-CR-190930] p 41 N93-13327 Human factors problems for aircrew-aircraft interfaces p 63 N93-12576 IAD-A2544931 Where should we focus our efforts? Body composition and physical performance Human factors research in aircrew performance and p 264 A93-37300 p 69 N93-14161 training: 1986-1991 Modeling clothed figures Operational space human factors - Methodology for a [AD-A254455] p 63 N93-12609 LAD-A2570371 p 71 N93-15363 DSO --- Detailed Supplementary Objective for manned Human perceptual deficits as factors in computer Shuttle Orbiter missions A review of models of the human temperature regulation interface test and evaluation ISAE PAPER 9211561 p 293 A93-41339 (DE92-0191241 p 63 N93-12712 p 120 N93-17918 LAD-A2580231 Development of the Hermes EVA Space Suit Glove Adaptive automation and human performance, 3: Effects Is axial loading a primary mechanism of injury to the ISAE PAPER 9212561 p 299 A93-41426 of practice on the benefits and costs of automation lower limb in an impact aircraft accident? Development of a 500 hPa shoulder joint for the shifts p 125 N93-19664 [AD-A254381] European EVA Space Suit System 64 N93-12860 Design/development of an enhanced biodynamic ISAE PAPER 9212571 p 299 A93-41427 Occupational ergonomics in space p 68 N93-14013 p 142 N93-19667 Institute for the Study of Human Capabilities Hurnan habitat design for the Space Exploration p 344 A93-41978 p 69 N93-14427 Improving manikin biofidelity p 142 N93-19668 [AD-A256091] Initiative The design and use of automotive crash test dummies A voyage to Mars: A challenge to collaboration between Lunar base requirements for human habitability p 142 N93-19669 p 345 A93-41995 p 70 N93-14614 man and machines A new instrumentation system for measuring the Compliant walker The psychological challenge of space dynamic response of the human head/neck during impact p 53 N93-14708 p 339 A93-42658 INASA-CASE-GSC-13348-21 acceleration p 143 N93-19672 Human factors design principles for instrument approach Human performance data visualization for system design Initial experiments with a myoelectric-based muscle ocedure charts. Volume 1: Readability p 348 A93-42840 teams p 104 N93-15968 sensor Computer-supported collaborative work - A new agenda IAD-A2572341 |DE92-016034| p 237 N93-25099 Gloved operator performance study for human factors engineering p 348 A93-42841 Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, An evaluation of miniaturized aircraft keyboards [AD-A256894] p 104 N93-16048 p 348 A93-42844 Directory of design support methods 1946-1988 [AD-A256987] p 104 N93-16258 'Liveware' survey of human systems integration (HSI) LAD-A2608691 p 265 N93-25628 p 349 A93-42847 Cognitive and affective components of mental workload: tools Visual perception of elevation CSERIAC case studies in ergonomics information Understanding the effects of each on human decision [AD-A261394] p 259 N93-26307 making behavior p 99 p 349 A93-42850 analysis --- for crew systems Transmission of vibration through the human body to Long-duration isolation and confinement: Human factors Evaluation of speech technology for the head: A summary of experimental data p 100 N93-16808 performance of man-machine systems issues and research requirements IISVR.TR.2181 p 361 N93-32237 Portable seat lift p 350 A93-44846 HUMAN CENTRIFUGES p 106 N93-17045 Benefits, limitations, and guidelines for application of INASA-CASE-MES-28610-11 Development of a tactile perceived attitude transducer Pax permanent Martian base: Space architecture for the stereo 3-D display technology to the cocknit IAD-A2537241 p 350 A93-44895 first human habitation on Mars, volume 5 p 25 N93-11081 environment Possible biomedical applications and limitations of a p 140 N93-18156 INASA-CR-1920421 procedure for estimating the variables of the variable-force centrifuge on the lunar surface: A research Cognitive engineering models in space systems working-condition space of a man-machine system for the p 83 N93-17458 p 141 N93-18517 tool and an enabling resource [NASA-CR-192001] control of a moving object p 364 A93-45685 **HUMAN FACTORS ENGINEERING** Effect of contrast on human speed perception Distribution of functions in a man-machine control N93-19104 Human factors in the 'glass cockpit' [NASA-TM-103898] system of a certain type p 364 A93-45687 p 27 A93-11202 Flight mechanics of high-performance aircraft Assessment of morale in Turkish Air Force pilots with SBN 0-521-34123-X| p 365 A93-47019
Profile analysis of simulator sickness symptoms -Human support for Mars exploration - Issues and p 133 N93-19660 [ISBN 0-521-34123-X] two clinical psychological tests p 27 Occupant simulation as an aspect of flight safety Smart space suits for space exploration research p 142 N93-19665 Application to virtual environment systems p 28 A93-12078 Computer aided methods for simulating occupant p.381 A93-49399 Human factors on advanced flight decks; Proceedings response to impact using OASYS DYNA3D High level organizing principles for display of systems of the Conference, London, United Kingdom, Mar. 14, p 142 N93-19666 fault information for commercial flight crews p 388 A93-52187 Design/development of an enhanced biodynamic IISBN 0-903409-85-21 p 142 N93-19667 p 142 N93-19668 p 29 A93-13408 manikin Modeling strategic behavior in human-automation C.R.M. training for the advanced flight deck Improving manikin biofidelity interaction - Why an 'aid' can (and should) go unused p 24 A93-13410 p 394 A93-52502 The design and use of automotive crash test dummies p 142 N93-19669 Relationship between ERP and workload in manual Cockpit checklists - Concepts, design, and use An improved anthropometric test device control p 30 A93-13721 p.389 A93-52506 Human factors in design of military aircrafts' oxygen p 143 N93-19670 The limits of human impact acceleration tolerance p 400 A93-52692 supply equipment p 60 A93-14222 method of the [AIAA PAPER 93-3572] The application of Hybrid 3 dummy to the impact seessment of a free-fall lifeboat p 143 N93-19671 Study of overall assessment of a free-fall lifeboat analysis Human factors with nonhumans -Factors that affect man-machine-environment systems p 61 A93-14413 new instrumentation system for measuring the p 404 A93-52721 computer-task performance dynamic response of the human head/neck during impact K.E. Tsiofkovsky on the role of the human factor in the Human factors evaluation of the HL-20 full-scale problem of space flight safety p 143 N93-19672 p 100 A93-18409 acceleration p 409 A93-53746 Methodology for ergonomic tests of the information Epidemiology of United States Air Force spatial Human factors applications in control systems design display on monitor indicators disorientation accidents: 1990-1991 p 133 N93-19679 p 101 A93-18530 for ground testing of turbine engines Disorientation and flight safety: A survey of UK Army Ergonomic aspects of presentation p 409 A93-54410 p 101 A93-18531 p 133 N93-19680 piloting-navigation information Virtual landings --- developing Enhanced Vision Systems Graphical displays - Implications for divided attention. p 410 A93-54868 Otolithic illusions on takeoff and visual information: for VFR focused attention, and problem solving Human engineering issues for data link systems Reflections in connection with an air accident case p 102 A93-19984 p 410 A93-54874 p 134 N93-19681 Individual differences and subgroups within populations Review of the space medico-engineering research in Cognitive factors in the air events of the Air Force during - The shopping bag approach p 136 A93-24050 China the last decade p 134 N93-19682 p 402 A93-55802 Human Factors Society, Annual Meeting, 35th, San Francisco, CA, Sept. 2-6, 1991, Proceedings, Vols. 1 & 2 [AAS PAPER 91-623] Effects of medium blood alcohol levels on pilots' Motion and human performance p 406 A93-55949 performance in the Sea King Simulator MK-41 p 185 A93-27126 KC-135 crew reduction feasibility demonstration p 125 N93-19683 simulation study. Volume 3: Test and evaluation Automation, authority and angst - Revisited Gremlins: A dozen hazardous thought and behavior p 185 A93-27127 p 30 N93-10713 IAD-A2539311 p 134 N93-19709 patterns as risk factors Individual pilot differences related to situation p 175 A93-27137 NASA Space Human Factors Program Advanced Aircraft Interfaces: The Machine Side of the p 31 N93-10890 [NASA-TM-108005] awareness Man-Machine Interface A systems analysis to identify human factors issues and Coordinated action in 3-D space [AGARD-CP-521] p 144 N93-19757 requirements for data link p 186 A93-27153 p 31 N93-10994 Engineering the visibility of small features on electronic Selecting Space Station Freedom hardware The effect of variable seat back angles on human flight displays p 144 N93-19758 p 188 A93-27184 response to +Gz impact accelerations p 31 N93-11559 Human factors issues in the use of night vision evices p 189 A93-27193 [AD-A250673] Human factors problems for aircrew-aircraft interfaces: Where should we focus our efforts? p 144 N93-19759 devices System for generating dynamic video imagery for human S-R compatibility effects with orthogonal stimulus and Advanced cockpit-mission and image management factors research p 31 N93-11743 response dimensions p 179 A93-27194 IAD-A2486751 p 144 N93-19760

SUBJECT INDEX
HUMAN PERFORMANCE

SUBJECT INDEX		HUMAN PERFORMANCE
Aircrew acceptance of automation in the cockpit p 144 N93-19761	Manned systems technology discipline p 314 N93-27860	Wall shear stress estimates in coronary artery constrictions p 170 A93-28759
Time stress measurement devices for enhancement of	Specification of adaptive aiding systems	Enhanced carotid-cardiac baroreflex response and
onboard bit performance p 144 N93-19762	[AD-A263071] p 314 N93-27927	elimination of orthostatic hypotension 24 hours after acute
Developing virtual cockpits p 145 N93-19764	Combat Automation for Airborne Weapon Systems: Man/Machine Interface Trends and Technologies	exercise in paraplegics p 216 A93-32781
Panoramic cockpit displays p 145 N93-19765	AGARD-CP-520 p 317 N93-28850	Significance of a comparison of results of caloric and
A new concept for helmet mounted vision p 145 N93-19767	The design and development of the new RAF standard	vestibulometric rotation tests p 248 A93-35226 Barotrauma in Boeing 737 cabin crew
The MOD (UK) integrated helmet technical demonstrator	HUD format p 318 N93-28856	p 278 A93-39706
programme p 145 N93-19769	Operator and automation capability analysis: Picking the right team p 319 N93-28864	Allergic, Immunological and Infectious Disease Problems
Multi-function visor p 146 N93-19770	Ergonomic development of digital map displays	in Aerospace Medicine
The use of voice processing for some aspects of the	p 320 N93-28866	[AGARD-CP-518] p 14 N93-11283
pilot-vehicle-interface in an aircraft p 146 N93-19772	System automation and pilot-vehicle-interface for	Growth factor involvement in tension-induced skeletal muscle growth
Multimodal dialog system for future cockpits p 146 N93-19773	unconstrained low-altitude, night attack p 320 N93-28867	[NASA-CR-193023] p 282 N93-27113
Principles for integrating voice I/O in a complex	Crucial role of detailed function, task, timeline, link, and	HUMAN PERFORMANCE
interface p 146 N93-19774	human vulnerability analyses in HRA	Subjective and behavioral effects associated with
A systems approach to the advanced aircraft man-machine interface p 146 N93-19776	DE93-001923 p 321 N93-28942	repeated exposure to narcosis p 7 A93-10327
man-machine interface p 146 N93-19776 Management of avionics data in the cockpit	NASA supporting studies for microgravity research on eye movements	Thermal convergence fails to predict heat tolerance limits p 8 A93-10331
p 147 N93-19777	[NASA-CR-193233] p 285 N93-29041	Documentation of activity and rest of a U.S. National
Model-based reasoning applied to cockpit warning	Anthropometric data from launch and entry suited test	Guard attack helicopter battalion p 9 A93-10338
systems p 147 N93-19778 The integration of advanced cockpit and systems	subjects for the design of a recumbent seating system [NASA-TM-104769] p 321 N93-29044	A software for testing human's ability to trouble-shoot
design p 147 N93-19779	Exercise/recreation facility for a lunar or Mars analog	in the condition of multitask p 29 A93-13537
CVA, cockpit design and development tool	p 352 N93-29733	Locus of the single-channel bottleneck in dual-task interference p 55 A93-14098
p 147 N93-19780	Mars habitat p 352 N93-29747	The effects of hypoxia on auditory reaction time and
Man-machine interface with simulated automatic target recognition systems p 147 N93-19781	Selenia: A habitability study for the development of a third generation lunar base p 352 N93-29748	P300 latency p 47 A93-16156
Equipment, more or less ready to be used in	An evaluation of B-1B pilot performance during simulated	Crew factors and their psychological problems in long
helicopters p 148 N93-19785	instrument approaches with and without status	term space flight p.57 A93-17431
Physiological responses to wearing the space shuttle	information [AD-A263874] p 353 N93-29888	Decrement in manual arm performance during whole body cooling p 88 A93-18038
launch and entry suit and the prototype advanced crew escape suit compared to the unsuited condition	Handedness and motor programming effects of manual	Effects of +Gy stress on human body
[NASA-TP-3297] p 149 N93-20319	control and movement	p 92 A93-19997
Space human factors discipline science plan	[AD-A264022] p 340 N93-30027	Effects of sleep deprivation on the cognitive capacities
[NASA-TM-108023] p 194 N93-21370 Requirements for an automated human factors,	Discomfort glare from high-intensity discharge headlamps: Effects of context and experience	of visuo-spatial representation and orientation p 129 A93-21870
manpower, personnel, and training (HMPT) planning tool	[PB93-174720] p 336 N93-30659	Human visual performance model for crewstation
[AD-A258531] p 195 N93-21753	Probabilistic simulation of the human factor in structural reliability p 365 N93-31573	design p 182 A93-26887
Operator Performance Support System (OPSS) p 196 N93-22195	reliability p 365 N93-31573 Human factors and the safety of flights: The importance	Human Factors Society, Annual Meeting, 35th, San
Evaluation of hole sizes in structures requiring EVA	of the management of sleep p 371 N93-32267	Francisco, CA, Sept. 2-6, 1991, Proceedings. Vols. 1 & 2 p 185 A93-27126
services as a means to prevent gloved-hand finger	Health maintenance facility system effectiveness testing	Reclined seating in advanced crewstations - Human
entrapment [NASA-TM-104767] p 234 N93-23129	[NASA-TM-104737] p 372 N93-32328	performance considerations p 186 A93-27151
The effects of display and response codes on	HUMAN FACTORS LABORATORIES	Effects of error-proofing and
information processing in an identification task [AD-A259531] p 234 N93-23451	Columbus payload requirements in human physiology p 220 N93-24386	chemical/biological/radiation protective glove use on touch panel operation p 186 A93-27152
[AD-A259531] p 234 N93-23451 Human Factors Issues in Aircraft Maintenance and	A feasibility study of hand kinematics for EVA analysis	Crew performance in Spacelab p 176 A93-27169
Inspection. Science, technology, and management: A	using magnetic resonance imaging p 313 N93-27848	Movement tracking performance as a function of
program review [PB93-146975] p 234 N93-23647	HUMAN IMMUNODEFICIENCY VIRUS Measuring performance decrements in aviation	required force level p 177 A93-27171
Comparative evaluation of a monocular head mounted	personnel infected with the human immunodeficiency	Individual differences in airline captains' personalities, communication strategies, and crew performance
display device versus a flat screen display device in	virus p 130 A93-25209	p 177 A93-27175
presenting aircraft maintenance technical data [AD-A259684] p 234 N93-23660	Structure of a human monoclonal antibody Fab fragment against qp41 of human immunodeficiency virus type	S-R compatibility effects with orthogonal stimulus and response dimensions p 179 A93-27194
An innovative method for hand protection from extreme	p 153 A93-28698	Computerized task battery assessment of cognitive and
cold using heat pipe	Structure of a human monoclonal antibody Fab fragment	performance effects of acute phenytoin motion sickness
[AD-A259720] p 235 N93-24128	against gp41 of human immunodeficiency virus type 1 p 203 A93-32850	therapy p 211 A93-30278
Attitude awareness enhancements for the F-16 head-up display	HIV infection in the nineties p 15 N93-11290	The effect of wearing protective chemical warfare combat clothing on human performance
[AD-A260280] p 236 N93-24168	AIDS/HIV in the US Military p 16 N93-11291	p 230 A93-30287
Initial experiments with a myoelectric-based muscle sensor	Estimates of Human Immunodeficiency Virus (HIV) incidence and trends in the US Air Force	Studies of the field-of-view resolution tradeoff in
[DE92-016034] p 237 N93-25099	p 16 N93-11292	virtual-reality systems p 232 A93-33443 Visual search in virtual environments
A heat transfer analysis of a mobile vehicle	Silent HIV infection p 16 N93-11293	p 233 A93-33450
radiation-shielded operator compartment [DE93-007428] p 264 N93-25318	HIV variability and perspectives of a vaccine p 16 N93-11294	The role of mental models in team performance in complex systems p 262 A93-34985
Human factors engineering: A key element of	Immunological parameters in current and former US Air	Performance consequences of automation-induced
instrumentation and control system design	Force personnel p 16 N93-11295	'complacency' p 286 A93-39571
[DE93-006731] p 264 N93-25415	Early markers of HIV infection and subclinical disease progression p 17 N93-11296	Structured interviews for pilot selection - No incremental
Helmeted head and neck dynamics under whole-body vibration p 264 N93-25531	Analysis of disease progression from clinical	validity p 286 A93-39572 Human performance and physiological function during
Measures of user-system interface effectiveness: An	observations of US Air Force active duty members infected	a 24-hr exposure to 1 percent bromotrifluoromethane
encoding scheme and indicators for assessing the usability	with the Human Immunodeficiency Virus: Distribution of AIDS survival time from interval censored observations	(Halon 1301) p 277 A93-39704
of graphical, direct-manipulation style user interfaces [AD-A260606] p 265 N93-25840	p 17 N93-11297	Dynamic analysis of human visuo-oculo-manual coordination control in target tracking tasks
Human Factors in Aviation Maintenance, phase 2	Relating cognitive function to military aviator	p 287 A93-41166
[DOT/FAA/AM-93/5] p 267 N93-26089	performance in early HIV infection p 17 N93-11298 Neuropsychiatric morbidity in early HIV disease:	Identification of hazardous awareness states in
Comparison of portable crewmember protective breathing equipment (CPBE) designs	Implications for military occupational function	monitoring environments [SAE PAPER 921136] p 287 A93-41324
[DOT/FAA/AM-93/6] p 310 N93-27121	p 18 N93-11299	An analysis of human performance in simulated
Man-systems distributed system for Space Station	Rapid susceptibility testing of mycobacterium avium	partial-gravity environments p 347 A93-42173
Freedom p 312 N93-27788 EVA/manned systems p 312 N93-27789	complex and mycobacterium tuberculosis isolated from AIDS patients	The psychological challenge of space p 339 A93-42658
Evolution of Space Station EMU PLSS technology	[NASA-CR-192382] p 172 N93-20736	Human performance data visualization for system design
recommendations p 312 N93-27790	HUMAN PATHOLOGY Preclinical cardiovascular and neurological	teams p 348 A93-42840
Evolving EVA system capability for the evolving Space Station Freedom requirements p 312 N93-27791	Preclinical cardiovascular and neurological occupation-related pathological symptoms in helicopter	'Liveware' survey of human systems integration (HSI) tools p 349 A93-42847
EVA and telerobot interaction p 312 N93-27792	pilots p 91 A93-18416	The effects of field of view size on the control of roll
Evolving technologies for Space Station Freedom	The role of rheoencephalography in the practice of aviation medicine p 160 A93-27649	motion p 349 A93-43722
computer-based workstations p 313 N93-27794 Man-systems integration and the man-machine	aviation medicine p 160 A93-27649 Rett syndrome - Stimulation of endogenous biogenic	A method for predicting the work load of a flight engineer engaged in counteracting failures of functional systems
interface p 313 N93-27795	amines p 164 A93-28697	of a transport aircraft p 364 A93-45688

HUMAN REACTIONS SUBJECT INDEX

HUMAN REACTIONS Influence of temperature and metabolic rate on work performance with Canadian Forces NBC clothing ... nuclear, biological, and chemical assault protective p 389 A93-49218 garments Continuous vs. intermittent work with Canadian forces NBC clothing --- nuclear, biological, and chemical assault protective garments p 389 A93-49219 Hormonal responses during orthostasis following 4 hours of head-down tilt p 379 A93-49221 Alternating prism exposure causes dual adaptation and generalization to a novel displacement p 388 A93-51959 Disruption and maintenance of skilled visual search as a function of degree of consistency p 389 A93-52501 p 386 A93-52505 Cognitive function at high altitude Human factors with nonhumans -Factors that affect computer-task performance p 404 A93-52721 3-D target designation using two control devices and an aiding technique --- in fighter cockpits p 408 A93-53120 Meeting human needs [AAS PAPER 91-313] p 400 A93-54306 Motion and space sickness [ISBN 0-8493-4703-3] n 402 A93-55929 The accelerative stimulus for motion sickness p 410 A93-55938 Motion and human performance p 406 A93-55949 Effects of early bright, late bright and dim illumination upon circadian neuroendocrine, electrophysiological and behavioral responses [AD-A254129] p 13 N93-10661 NASA Space Human Factors Program [NASA-TM-108005] o 31 N93-10890 Development of a tactile perceived attitude transducer p 25 N93-11081 [AD-A253724] Neuropsychiatric morbidity in early HIV disease: Implications for military occupational function p 18 N93-11299 System for generating dynamic video imagery for human factors research [AD-A248675] p 31 N93-11743 Development of the Personnel-based System Evaluation Aid (PER-SEVAL) performance shaping functions [AD-A252820] p 26 N93-11779 Direct manipulation and intermittent automation in advanced cockpits [AD-A253814] p 32 N93-11784 Meta-analysis of integrity tests: A critical examination of validity generalization and moderator variables p 27 N93-12225 The OMPAT level 1 Neurophysiological Performance Assessment Battery: NPPAB [AD-A254840] p 27 N93-12432 Human performance in complex task environments: A basis for the application of adaptive automation [AD-A255067] p 35 N93-12486 The effects of wearing protective chemical warfare combat clothing on human performance [AD-A250716] p 35 N93-12491 An evaluation of crew coordination and performance during a simulated UH-60 helicopter mission (AD-A2549841 p 35 N93-12509 Adaptive automation and human performance, 3: Effects of practice on the benefits and costs of automation [AD-A254381] p 64 N93-12860 Effect of protective clothing ensembles on artillery battery crew performance LAD-A2543271 p 64 N93-12960 Body composition and physical performance [AD-A255627] p 69 N93-14161 Sleep inertia: Is there a worst time to wake up? [AD-A256602] p 52 N93-14240 Institute for the Study of Human Capabilities p 69 N93-14427 LAD-A2560911 Decision making in a dynamic task environment: The effect of time pressure I AD-A256557 I p 58 N93-14602 The effect of pain on task performance: A review of the literature IAD-A2543361 p 59 N93-15216 Night vision manual for the flight surgeon IAD-A257059] p 104 N93-15710 Development and enhancement of a model of performance and decision making under stress in a real ife setting (AD-A2556991 p 99 N93-16111 NASA/NSF Workshop on Antarctic Research p 81 N93-16803 p 81 N93-16804 Infectious disease Exercise during long term exposure to space: Value of p 82 N93-16807 exercise during space exploration Bright light delivery system

Automatic information processing and high performance skills: Individual differences and mechanisms of performance improvement in search-detection and complex tasks IAD-A2577111 p 100 N93-17684 Enhanced performance using physiological feedback p 130 N93-17816 IAD-A2580061 The detection of lateral motion by US Navy jet pilots IAD-A2581151 p 120 N93-17896 Comparing performance on implicit memory tests IAD-A2581681 p 131 N93-17921 Spatio-temporal masking: Hyperacuity and local adaptation LAD-A2579341 p 121 N93-18006 Dual-task training strategies and aging p 131 N93-18027 [AD-A258261] Design requirements for force reflecting master p 139 N93-18035 Cognitive engineering models in space systems p 141 N93-18517 [NASA-CR-192001] Human performance assessment methods p 133 N93-18868 LAGARD-AG-308-ADD L The effects of iconic presentation on individuals p 133 N93-18949 IAD-A2587851 Effect of contrast on human speed perception p 141 N93-19104 INASA-TM-1038981 Stimulus presentation formats and measurement techniques for the quantification of target detection performance (AD-A2589331 p 133 N93-19449 Cognitive factors in the air events of the Air Force during the last decade n 134 N93-19682 Effects of medium blood alcohol levels on pilots performance in the Sea King Simulator MK-41 p 125 N93-19683 The influence of individual sensivity to stress on the behavior (attitude and performance) of avoidance of an p 134 N93-19705 Human factors problems for aircrew-aircraft interfaces: Where should we focus our efforts? p 144 N93-19759 Modeling the dynamics of mental workload and human performance in complex systems LAD-A2585531 p 135 N93-19956 Physiological responses to wearing the space shuttle launch and entry suit and the prototype advanced crew escape suit compared to the unsuited condition p 149 N93-20319 Acquisition and production of skilled behavior in dynamic decision-making tasks p 181 N93-20908 [NASA-CR-192361] p 181 N93-20908 Requirements for an automated human factors, manpower, personnel, and training (HMPT) planning tool IAD-A2585311 p 195 N93-21753 Comparative evaluation of a monocular head mounted display device versus a flat screen display device in presenting aircraft maintenance technical data p 234 N93-23660 I AD-A259684 I Sustaining health and performance in the cold: A pocket guide to environmental medicine aspects of cold-weather operations (AD-A259625) p 218 N93-24021 Perception/action: An holistic approach p 235 N93-24067 Training high performance skills using above real-time [NASA-CR-192616] p 225 N93-24192 The five-factor personality model and naval aviation candidates p 225 N93-24319 [AD-A260227] Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 An automated method for determining mass properties JAD-A2599241 p 236 N93-24441 A longitudinal examination of applicants to the air traffic control supervisory identification and development program [DOT/FAA/AM-92/16] p 257 N93-25213 A cognitive architecture for human performance process model research p 258 N93-25815 [AD-A261040] Simulated sustained flight operations and performance. Part 1: Effects of fatigue p 266 N93-25859 [AD-A261012] Investigation of the effects of Extra Vehicular Activity and Launch and Entry (LES) gloves on mance p 266 N93-26061 performance Contribution of personality to the prediction of success in initial air traffic control specialist training p 259 N93-26138 IDOT/FAA/AM-93/41 Automation and robotics human performance

INASA-CR-1930491

IDOT/FAA/RD-93/91

decision making

p 96 N93-17058

p 267 N93-26153

p 288 N93-27103

How expert pilots think: Cognitive processes in expert

Method of encouraging attention by correlating video game difficulty with attention level INASA-CASE-LAR-15022-11 p 288 N93-28128 Human capabilities and limitations in situation p 319 N93-28863 awareness Crucial role of detailed function, task, timeline, link, and numan vulnerability analyses in HRA p 321 N93-28942 IDE93-0019231 The dynamics of visual representation, attention, encoding, and retrieval processes p 342 N93-30543 IAD-A2646741 Determinants of performance rating accuracy: A field study AD-A2647261 p 342 N93-30575 Probabilistic simulation of the human factor in structural p 365 N93-31573 Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools p 363 N93-32011 [AD-A264571] A decision-theoretic approach to the display of information for time-critical decisions: The Vista project p 367 N93-32152 HUMAN REACTIONS Study of the whole-body response to vibration: The effect of repeated exposure to the long-term whole-body vibration. II p 9 A93-11286
Physical fitness as a criterion of readiness for p 98 A93-18412 spaceflights Consequences of a basic model of external-information p 98 A93-18414 perception Psychophysiological studies of acute hypoxic hypoxia p 91 A93 18417 HUD climb/dive ladder configuration and unusual attitude recovery p 185 A93-27129 Individual pilot differences related to situation p 175 A93-27137 Insights into pilot situation awareness using verbal p 175 A93-27138 protocol analysis Workload or situational awareness? TLX vs. SART for aerospace systems design evaluation --- Task Load Index p 175 A93-27139 Response to automated function failure cue - An operational measure of complacency p 176 A93-27147 Response characteristics of the human torsional estibuloocular reflex p 215 A93-32774 vestibuloocular reflex Modeling human response errors in synthetic flight simulator domain p 141 N93-19464 Occupant simulation as an aspect of flight safety p 142 N93-19665 Human factors problems for aircrew-aircraft interfaces: Where should we focus our efforts? p 144 N93-19759 Armstrong Laboratory space visual function tester p 284 N93-28739 HUMAN RELATIONS Adaptation of young pilots to new conditions of their work (Social-psychological aspects) p 256 A93-35220 **HUMAN RESOURCES** Diversity in biological research p 42 N93-13700 **HUMAN TOLERANCES** A study of human brain somatosensory evoked potential and its application to man-machine-environment system engineering - Preliminary exploration of SEP in normal p 12 A93-13719 Free radical attack - Biological test for human resistance p 39 A93-17434 capability Windblast tolerance of human thorax and abdomen p 91 A93-19992 Informative value of the rerespiration method for evaluating the functional resources of the cardiorespiratory system during the simulation of certain flight factors p 248 A93-35222 Effect of aerobic capacity on Lower Body Negative Pressure (LBNP) tolerance in females [NASA-TP-3298] p 128 N93-20318 Sustaining health and performance in the cold: A pocket guide to environmental medicine aspects of cold-weather operations [AD-A259625] p 218 N93-24021 Issues on human acceleration tolerance after long-duration space flights [NASA-TM-104753] p 334 N93-29651 **HUMAN WASTES** life support Bioregenerative self-sustaining p 231 A93-32073 ecosystem in space Concept of waste transferring mechanisms [SAE PAPER 921239] p 297 A93-41412 Test of the Shuttle Extended Duration Orbiter (EDO) Waste Collection Subsystem (WCS) ISAE PAPER 9213461 p 305 A93-41505 Development of a pyrolysis waste recovery model with

designs, test plans, and applications for space-based

p 267 N93-26076

INASA-CASE-MFS-28723-11

SUBJECT INDEX **HYPOTENSION**

HUMIDITY accountability I AD-A262862 I HYDRATION Changes [AD-A258744] concentrations HYDROGEN development HYDROLYSIS **HYDROPONICS**

Experimental research of the temperature and humidity control system for manned spacecraft cabin p 10 A93-13529 Predicting increases in skin temperature using heat stress indices and relative humidity in helicopter pilots p 167 A93-28729 Use of sorption technology for treatment of humidity condensate for potable water **ISAE PAPER 9213121** p 303 A93-41474 Space Station Condensing Heat Exchanger biofilm formation and control evaluation [SAE PAPER 921383] p 308 A93-41541 Methods development for total organic carbon p 40 N93-12949 INASA-CR-1844381 Evaluation of personal cooling systems in conjunction with explosive ordnance disposal suits p 350 N93-29471 **HUMIDITY MEASUREMENT** Analysis of the Variable Pressure Growth Chamber using the CASE/A simulation package [SAE PAPER 921122] p 291 A93-41314 in body fluid compartments hypohydration and rehydration in heat-acclimated tropical p 251 A93-35496 Nutrition and hydration status of aircrew members consuming the food packet, survival, general purpose, improved during a simulated survival scenario p 128 N93-20384 Comparison of total body water estimates from O-18 and bioelectrical response prediction equations INASA-TP-32991 p 218 N93-23734 HYDRAULIC EQUIPMENT An update on the readiness of vapor compression distillation for spacecraft wastewater processing [SAE PAPER 921114] p 290 A93-41307 HYDROCYANIC ACID An efficient lightning energy source on the early earth p 73 A93-17823 Dark matter in the solar system - Hydrogen cyanide olymers p 110 A93-17987 Variations in time-to-incapacitation and blood cynanide values for rats exposed to two hydrogen cyanide gas IDOT/FAA/AM-93/81 p 283 N93-27158 Photo and thermal reactions of ferrous hydroxide --formation of hydrogen in Archaean ocean relevant to chemical origin of life p 269 A93-36561 **HYDROGEN BONDS** Liquid water and the origin of life p 268 A93-36552 HYDROGEN SULFIDE Biological conversion of synthesis |DE92-001279| Biological conversion of synthesis gas [DE92-017673] p 40 N93-13269 Kinetics of peptide hydrolysis and amino acid decomposition at high temperature --- space biochemical p 411 A93-53289 Two phase fluid management for hydroponics [SAE PAPER 921163] p 294 A93-41345 Characterization of the water soluble component of p 294 A93-41345 inedible residue from candidate CELSS crops INASA-TM-1075571 p 139 N93-18111 HYDROTHERMAL SYSTEMS Why are hydrothermal systems proposed as plausible environments for the origin of life? nvironments for the origin of life? p 73 A93-18001 Hydrothermal systems - Their varieties, dynamics, and suitability for prebiotic chemistry p 73 A93-18002 Chemical environments of submarine hydrothermal systems --- supporting abiogenetic theory p 74 A93-18005 Chemical markers of prebiotic chemistry in hydrothermal Hydrothermal organic synthesis experiments p 74 A93-18007

The binding and reactions of nucleotides and polynucleotides on iron oxide hydroxide polymorphs p 325 A93-43795 HYGIENE Skin care in the space environment p 170 A93-28756 Control of infection in an international airline p 407 A93-52867 HYOSCINE Effects of scopolamine on autonomic profiles underlying motion sickness susceptibility p 116 A93-24037 Effect of transdermally administered scopolamine on the p 383 A93-49572 vestibular system in humans Pharmacological countermeasures against motion p 404 A93-55945 sickness HYPERBARIC CHAMBERS The role of ground level oxygen in the treatment of altitude chamber decompression sickness p 89 A93-18043 Electromyographic investigations of tremor in aquanauts p 90 A93-18292 in simulated immersions Maximal lung ventilation and forced expiration rate under p 76 A93-18297 Gas composition in the blood of rabbits exposed to a high-pressure atmosphere under conditions of spontaneous and forced ventilation p 77 A93-18301 Rationale for a hyperbaric treatment capability at a Lunar p 213 A93-30286 New aspects of using hyperbaric oxygenation in aviation medicine p 252 A93-36742 Hyperbaric treatment operations aboard Space Station Freedom [SAE PAPER 921142] p 292 A93-41328 The psychological challenge of space p 339 A93-42658 The Proceedings of the Hypobaric Decompression Sickness Workshop IAD-A2576121 p 123 N93-18362 HYPERCAPNIA Effects of a 1-yr stay at altitude on ventilation, metabolism, and work capacity p 92 A93-20028 Efficiency of using iterative hypoxic hypercapnic stimuli for enhancing cardiorespiratory reserves under the effect of radial accelerations p 249 A93-35244 **HYPERGLYCEMIA** Effects of sleep deprivation and exercise on glucose plerance p 281 A93-41165 **HYPERKINESIA** Enhanced carotid-cardiac baroreflex response and elimination of orthostatic hypotension 24 hours after acute p 216 A93-32781 exercise in paraplegics HYPEROXIA Distribution of oxygen tension in pial arterioles of rats under normobaric hyperoxia p 76 A93-18295 Time course of functional repair of the alveolar epithelium after hyperoxic injury p 78 A93-20032

Oxygen tension and water-soluble products of lipid peroxidation in blood of volunteers in hypobaric hyperoxial p 169 A93-28751

HYPERTENSION

gas culture

p 6 N93-12482

p 74 A93-18010

p 197 A93-28377

p 41 N93-13457

p 269 A93-36561

An experimental approach to chemical evolution in

ubmarine hydrothermal systems p 74 A93-18008 Future research --- abiogenesis in hydrothermal

Preservation of biological information in thermal spring

deposits - Developing a strategy for the search for fossil

Photo and thermal reactions of ferrous hydroxide ---

formation of hydrogen in Archaean ocean relevant to

Hydrothermal organic synthesis experiments

submarine hydrothermal systems

systems

life on Mars

HYDROXIDES

[NASA-CR-191257]

chemical origin of life

Heart and lung alterations in neonatal rats exposed to CO or high altitude p 77 A93-20027 Retroperitoneal fibrosis as a cause of hypertension in an aviator - A case report p 212 A93-30284 Hypertension and the probability of an incapacitating event over a defined period - Impact of treatment p 215 A93-32777

Minimal hypoxic pulmonary hypertension in normal Tibetans at 3,658 m p 280 A93-41121 Acute hypertensive response to +Gz acceleration in mildly hypertensive pilots p 386 A93-52307 The identification and quantitation of triamterene in blood and urine from a fatal aircraft accident

p 49 N93-12612 [AD-A254550] Systemic and pulmonary hypertension after resuscitation

with cell-free hemoglobin p 120 N93-17900 IAD-A2581851

HYPERTHERMIA

Influence of graded dehydration on hyperthermia and cardiovascular drift during exercise p 44 A93-14971 Effect of high temperature on the beta-adrenoreceptor

activity and the catecholamine synthesis

p 39 A93-16750 Effect of heat acclimatization on cAMP level in plasma, cerebrospinal fluid and preoptic area-hypothalamus in hyperthermal rabbits p 199 A93-30437

Tissue-specific noradrenergic activity during acute heat ress in rats p 323 A93-42193 stress in rats The role of serotonin and histamine in increasing the resistance of the organism to certain extreme conditions

p 324 A93-43034

Continuous vs. intermittent work with Canadian forces NBC clothing --- nuclear, biological, and chemical assault protective garments p 389 A93-49219

HYPERVELOCITY IMPACT

Comet impacts and chemical evolution on the p 109 A93-17980 hombarded earth

HYPERVENTILATION

Determinants of poststimulus potentiation in humans p 78 A93-20034 during NREM sleep Increased normoxic ventilation induced by repetitive p 79 A93-20037 hypoxia in conscious dogs HYPERVOLEMIA

Effect of hemorrhage on cardiac output, vasopressin, aldosterone, and diuresis during immersion in men [NASA-TM-103949] p 6 N93-12014

HYPOBARIC ATMOSPHERES

Behavioral adaptation to sustained hypobaric hypoxia manifested by timing behavior in rats. I

p 37 A93-15526 Failure of the straight-line DCS boundary when extrapolated to the hypobaric realm p 47 A93-16154 Influence of in vivo hypobaric hypoxia on function of lymphocytes, neutrocytes, natural killer cells, p 280 A93-41123 cytokines Hypobaric hypoxia as a correction and rehabilitation

method in aviation medicine p 402 A93-55332

HYPODYNAMIA

Autorosette formation in the peripheral blood of people with lengthy limitations of motor activity p 250 A93-35245

HYPOGLYCEMIA

Modification of water and electrolyte metabolism during head-down tilting by hypoglycemia in men

p 92 A93-20029 Idiopathic Reactive Hypoglycemia in a population of healthy trainees of an Italian Air Force military school

p 368 N93-32248

HYPOKINESIA Hypokinesia and weightlessness: Clinical and

physiologic aspects --- Book IISBN 0-8236-2415-31 p 87 A93-17897 Physical fitness as a criterion of readiness for spaceflights p 98 A93-18412 Effect of prolonged antiorthostatic bed rest hypokinesia on functional properties of the neuromuscular system in

p 116 A93-23151 humans Formation of the hypokinetic syndrome in the digestive

system under conditions of weightlessness p 119 A93-25600 Histochemical and contractile responses of rat medial

gastrocnemius to 2 weeks of complete disuse p 157 A93-28752

Effect of exercise and bisphosphonate on mineral balance and bone density during 360 day antiorthostatic hypokinesia p 170 A93-28760 Features of the effect of hypokinesia on cardiac activity

in rats with high and low spontaneous motor activity p 240 A93-35224

Validation of the use of the helium-neon laser in the medical rehabilitation of patients with atrophy p 248 A93-35228

Vestibulo-oculomotor responses under conditions of immersion hypokinesia p 251 A93-35256 Hemodynamics in monkeys during antiorthostatic hypokinesia at angles of -6 and -20 deg

p 241 A93-35259 Myosin and troponin changes in rat soleus muscle after hindlimb suspension p 273 A93-41124 Changes in the intensity of free-radical reactions in the

organs of rats under hypokinetic stress, protected by the delta-sleep-inducing peptide and its tyrosine-containing p 378 Shortening velocity and calcium sensitivity of single

fibers from hindlimb suspended muscle in rats p 398 A93-55329

Effect of aerobic capacity on Lower Body Negative Pressure (LBNP) tolerance in females p 128 N93-20318 [NASA-TP-3298] Issues on human acceleration tolerance after

long-duration space flights [NASA-TM-104753] p 334 N93-29651

Protein requirements in hypoxia or hypokinesia p 368 N93-32244

HYPOTENSION

Posture and the circulation - The age effect

p 93 A93-20653 Increased orthostatic blood pressure variability after prolonged head-down tilt p 161 A93-28676 Influence of ten-day head-down bedrest on human carotid baroreceptor-cardiac reflex function

p 161 A93-28678 Effects of head-down tilt for 10 days on the compliance p 162 A93-28680 of the leg Enhanced carotid-cardiac baroreflex response and elimination of orthostatic hypotension 24 hours after acute p 216 A93-32781 exercise in paraplegics Alanine increases blood pressure during hypotension p 203 A93-33027

SUBJECT INDEX

HYPOTHALAMUS HYPOTHALAMUS Tryptophan availability modulates serotonin release from rat hypothalamic slices p 152 A93-27000 Effect of chronic D-fenfluramine administration on rat hypothalamic serolonin levels and release p 152 A93-27049 Serotonin release varies with brain tryptophan levels p 201 A93-32119
Relationship between pituitary ACTH content and hypothalamic catecholamines in the rat p 203 A93-33028 Norepinephrine content in discrete brain areas and neurohypophysial vasopressin in rats after a 9-d spaceflight (SLS-1) p 273 A93-41167 Role of the central nervous system in the control of hybernation p 378 A93-51025 Neurochemical control of circadian rhythms [AD-A255054] p 50 N93-13116 Control and circadian behavior by transplanted suprachiasmatic nuclei [AD-A264553] p 335 N93-30382 Molecular approach to hypothalamic rhythms p 335 N93-30421 LAD-A2644381 Melatonin, the pineal gland, and circadian rhythms IAD-A2640991 p 337 N93-31061 Organization of the human circadian system IAD-A2646751 p 361 N93-32015 HYPOTHERMIA A second postcooling afterdrop - More evidence for a convective mechanism p 44 A93-14969 The quality of an operator's work on a flight simulator under conditions of thermal discomfort p 45 A93-15172 Limited heat transfer between thermal compartments during rewarming in vasoconstricted patients p.88 A93-18036 Comparison of four noninvasive rewarming methods for mild hypothermia p 88 A93-18037 Effect of task complexity on mental performance during immersion hypothermia p 211 A93-30279 Effectiveness of NASA 1032 and 1035 and Air Force 1030 and 1034 units in protection against cold water hypothermia IAD-A2551201 p 34 N93-12291 HYPOTHESES Handedness and motor programming effects of manual control and movement [AD-A264022] p 340 N93-30027 HYPOYEMIA Effects of hypoxemia at sea level and high altitude on sodium excretion and hormonal levels p 8 A93-10332 Potential hazards of high anti-Gz suit protection p 48 A93-16164 The response of medullar respiratory neurons to the stimulation of the amygdaloid nuclei under hypoxia A93-12860 Effects of oxygen on regulation of cerebral blood flow in rabbits adapted to hypoxia p 3 A93-13545 The evaluation of tolerance to serious acute hypoxia in humans p 11 A93-13715 Hypoxia-induced downregulation of beta-adrenergic receptors in rat heart p 37 A93-14973 Behavioral adaptation to sustained hypobaric hypoxia manifested by timing behavior in rats. I p 37 A93-15526 The effects of hypoxia on auditory reaction time and P300 latency The effects of chronic hypoxia on human auditory system sensitivity p 89 A93-18041 efficiency of a prophylactic-rehabilitational treatment of civil-aviation flight crews p 91 A93-18415 Psychophysiological studies of acute hypoxic hypoxia p 91 A93-18417 Dynamic characteristic of changes of oxygen saturation of blood hemoglobin under conditions of acute hypoxia in human body p 91 A93-19993 Heart and lung alterations in neonatal rats exposed to CO or high attitude p 77 A93-20027 Effects of a 1-yr stay at altitude on ventilation, metabolism, and work capacity p 92 A93-20028 Differential effects of long-term hypoxia on norepinephrine turnover in brain stem cell groups p 78 A93-20030 Determinants of poststimulus potentiation in humans during NREM sleep p 78 A93-20034 Effects of acute hypoxia on renal and endocrine function at rest and during graded exercise in hydrated subjects p 93 A93-20035

Increased normoxic ventilation induced by repetitive ypoxia in conscious dogs p 79 A93-20037

Modulation of respiratory responses to carotid sinus

Protein absorption and energy digestibility at high

p 79 A93-20038

p 115 A93-21683

Operation Everest II - Gas tensions in expired air and arterial blood at extreme attitude p 117 A93-24043 Self-organizing character of alpha wave in EEG due to acute hypoxic hypoxia in normal subjects p 213 A93-30436 Effect of acute hypoxia exposures on plasma endothelin p 199 A93-30442 Efficiency of using iterative hypoxic hypercapnic stimuli for enhancing cardiorespiratory reserves under the effect of radial accelerations p 249 A93-35244 Effects of prolonged head-down bed rest on physiological responses to moderate hypoxia p 251 A93-35494 Hypoxic ventilatory responsiveness in Tibetan compared with Han residents of 3.658 m p 280 A93-41120 Minimal hypoxic pulmonary hypertension in normal Tibetans at 3,658 m p 280 A93-41121 Influence of in vivo hypobaric hypoxia on function of lymphocytes, neutrocytes, natural killer cells, cytokines p 280 A93-41123 Endotoxin priming followed by high-altitude causes pulmonary edema in rats p 323 A93-42186 Effect of chronic hypoxia on hypoxic ventilatory response in awake rats p 323 A93-42187 Mechanisms of improved arterial oxygenation after peripheral chemoreceptor stimulation during hypoxic exercise p 331 A93-42188 Cognitive performance and event-related brain potentials under simulated high altitudes p 331 A93-42189 Effects of chronic hypoxia and exercise on plasma erythropoietin in high-altitude residents p 331 A93-42191 The role of serotonin and histamine in increasing the resistance of the organism to certain extreme conditions p 324 A93-43034 Effect of adaptation to hypoxia on the contractile activity of fast and slow muscles in the rat p 324 A93-43035 Mechanisms of the antihypoxic effect of taurine p 325 A93-43073 Effect of hypoxic hypoxia on the immune response and some factors of nonspecific resistance of human and p 325 A93-43074 animal organisms Effects of acute hypoxia on intracranial dynamics in p 326 A93-44177 unanesthetized goats Renal hemodynamics, tubular function, and response to low-dose dopamine during acute hypoxia in humans p 332 A93-44180 Functional and structural adaptation of the yak pulmonary circulation to residence at high altitude p 326 A93-44181 Effects of high altitudes on finger cooling test in Japanese and Tibetans at Qinghai Plateau p 382 A93-49560 Reduction of postprandial lipemia after acute exposure to high attitude hypoxia p 382 A93-49567 Hemodynamic effects of altitude exposure and oxygen administration in chronic obstructive pulmonary disease p 383 A93-49571 Analysis of individual differences between psychological reactions of humans under combined hypoxic stress p 388 A93-51115 Immune and physiological mechanisms of hypoxic p 384 A93-51116 reactions Hypobaric hypoxia as a correction and rehabilitation method in aviation medicine p 402 A93-55332

p 368 N93-32244 ı IDENTIFYING A new test of scanning and monitoring ability: Methods and initial results p 24 N93-10321 IAD-A2491231 A longitudinal examination of applicants to the air traffic control supervisory identification and development program p 257 N93-25213 DOT/FAA/AM-92/16] IGNITION Protective helmet assembly INASA-CASE-MSC-21842-1 p 106 N93-17088 ILLUMINATING Visibility of transmissive liquid crystal displays unde

Dynamics of electroencephalographic indices during

Metabolic factors influencing myocardial recovery from

Nifedipine for treatment of high altitude pulmonary

Protein requirements in hypoxia or hypokinesia

acute hypoxia

acidosis (CiC3)

IAD-A2523761

LAD-A2569591

dynamic lighting conditions

Air Traffic Control facility lighting

edema

p 402 A93-55333

n 14 N93-10796

n 95 N93-16187

p 103 A93-19990 p 188 A93-27167

behavioral responses AD-A254129 | p 13 N93-10661 ILLUSIONS Two types of occlusion cues for the perception of 3-D p 222 A93-30239 illusory objects in binocular fusion Otolithic illusions on takeoff and visual information: Reflections in connection with an air accident case p 134 N93-19681 IMAGE ANALYSIS Model for the computation of self-motion in biological p 97 A93-17673 Exocentric judgements in real environments and p 189 A93-27190 stereoscopic displays Helmet mounted display with multiple image sources p 227 A93-30057 Image technology and information analysis of bone change with gravitational exposure p 378 A93-49177 Visual perception of structure from motion p 26 N93-11503 I AD-A2532351 Recognition of partially occluded threat objects using the annealed Hopefield network p 142 N93-19466 Evaluation of lens distortion errors in video-based motion analysis INASA-TP-32661 p 258 N93-25736 IMAGE CONTRAST Human speed perception is contrast dependent p 55 A93-14119 IMAGE ENHANCEMENT Image enhancement filters significantly improve reading performance for low vision observers p 167 A93-28723 IMAGE FILTERS Image enhancement filters significantly improve reading performance for low vision observers p 167 A93-28723 IMAGE INTENSIFIERS Helicopter night vision goggle testing in the United Kingdom p 148 N93-19917 Human visual limitations on suprathreshold contrast perception through ANVIS LAC-A2599701 p 226 N93-24431 IMAGE PROCESSING Human vision, visual processing, and digital display II; Proceedings of the Meeting, San Jose, CA, Feb. 27-Mar. p 137 A93-25363 (SPIE-14531 A comparison of neural network and fuzzy clustering techniques in segmenting magnetic resonance images of p 214 A93-31267 Compensating lags in head-coupled displays using head position prediction and image deflection n 231 A93-31782 Alteration of structure and mobility of erythrocyte aggregates under normal- to microgravity conditions p 200 A93-32072 A computational model for the stereoscopic optics of a head-mounted display p 390 A93-49393 Visual data interpretation; Proceedings of the Meeting, San Jose, CA, Feb. 10-11, 1992 (SPIE-1668) p 391 A93-49451 Multistage integration model for human egomotion [AIAA PAPER 93-3564] p 406 A93-52664 Design of a reading test for low vision image warping p 400 A93-53025 System for generating dynamic video imagery for human factors research p 31 N93-11743 IAD-A2486751 Operator vision aids for space teleoperation assembly p 33 N93-11981 and servicing A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522 Neural network retinal model real time implementation [AD-A255652] p 52 N93-14210 Effect of contrast on human speed perception INASA-TM-1038981 p 141 N93-19104 Retinal modeling: Segmenting motion from spatio-temporal inputs using neural networks IAD-A2588541 p 125 N93-19369 Advanced cockpit-mission and image management p 144 N93-19760 p 148 N93-19784 Adaptive autonomous target cuer Why do we see three-dimensional objects? LAD-A2598921 p 224 N93-23986 Computer based analysis and synthesis of retinal p 221 N93-24420 [AD-A2605141

Digital mammography, cancer screening: Factors

important for image compression

p 221 N93-24551

Integration of exterior lighting systems and night vision

Effects of early bright, late bright and dim illumination

upon circadian neuroendocrine, electrophysiological and

o 63 N93-12732

imaging systems (AD-A254826)

ILLUMINATION

altitude

hypoxia in conscious dogs

nerve stimulation by brain hypoxia

SUBJECT MIDEV

SOBJECT INDEX		IMPACT LOADS
Automated system for early breast cancer detection in	A feasibility study of hand kinematics for EVA analysis	Absence of protective immunity against diphtheria in a
mammograms p 253 N93-25568 A modular head/eye platform for real-time reactive	using magnetic resonance imaging p 313 N93-27848 Low-cost helmet-mounted displays	large proportion of young adults p 18 N93-11302 The screening of inhalant allergic diseases in the
vision	[AD-A262616] p 317 N93-28479	selection of candidates for aircraft piloting
[OUEL-1941/92] p 320 N93-28897	The AFOSR Workshop on the Future of EEG and MEG	p 21 N93-11312
Computing with neural maps: Application to perceptual and cognitive function	[AD-A264338] p 335 N93-30160	Phadiatop: A screening test for inhalant allergy p 21 N93-11313
[AD-A264056] p 341 N93-30033	IMMOBILIZATION The effect of the activation of the sympatho-adrenal	In vivo and in vitro diagnosis of allergic respiratory
Modelling and simulation of human retinal vision processing p 335 N93-30269	system on catecholamine inactivation in rat lungs	disease during screening procedures in the Italian Navy: Comparative evaluation of a recent quantitative
An algorithm for simple and complex feature detection:	p 2 A93-12864	automatized enzyme immunoassay method to dose
From retina to primary visual cortex [AD-A264306] p 337 N93-30897	Changes in vitamin A status following prolonged immobilization (simulated weightlessness)	specific IgE p 21 N93-11314
1AU-A264306 p 337 N93-30897 IMAGE RESOLUTION	p 166 A93-28720	Allergy screening and follow-up in student pilots of the Belgian Air Force (BAF) p 21 N93-11316
Human low vision image warping - Channel matching	The state of the endocrine system of rats of different age under conditions of immobilization stress and biomos	IMMUNOLOGY
considerations p 231 A93-32444 Studies of the field-of-view resolution tradeoff in	administration p 242 A93-35671	Structure of a human monoclonal antibody Fab fragment against gp41 of human immunodeficiency virus type
virtual-reality systems p 232 A93-33443	IMMUNE SYSTEMS Heterogeneity of changes in lymphoproliferative ability	p 153 A93-28698
High-resolution inserts in wide-angle head-mounted stereoscopic displays p 408 A93-53121	with increasing age p 79 A93-20662	Variable lymphocyte responses in rats after space flight p 154 A93-28704
stereoscopic displays p 408 A93-53121 High-resolution contrast control on a video display:	Cellular immunosenescence - An overview p 80 A93-20663	In vivo testing confirms a blunting of the human
Method and calibration	Immune response during space flight	cell-mediated immune mechanism during space flight
[AD-A256552] p 60 N93-15400 X Ray System, Lightweight Medical (XRSLM)	p 94 A93-20664 Influence of microgravity on immune system and genetic	p 167 A93-28732 The clinical chemistry and immunology of long-duration
[AD-A258159] p 123 N93-18295	information p 160 A93-26572	space missions p 169 A93-28754
Effects of area-of-interest display characteristics of visual search performance and head movements in	In vivo testing confirms a blunting of the human cell-mediated immune mechanism during space flight	Structure of a human monoclonal antibody Fab fragment against gp41 of human immunodeficiency virus type 1
simulated low-level flight	p 167 A93-28732	p 203 A93-32850
[AD-A264661] p 341 N93-30542	Some indices of humoral immunity in Rhesus monkeys under the effect of extreme space flight factors	Altered immunological response in mice subjected to stress and exposed to fungal spores
Parametric study of diffusion-enhancement networks for	p 241 A93-35258	[SAE PAPER 921215] p 274 A93-41391
spatiotemporal grouping in real-time artificial vision [AD-A256059] p 58 N93-14580	Influence of in vivo hypobaric hypoxia on function of lymphocytes, neutrocytes, natural killer cells, and	Allergic, Immunological and Infectious Disease Problems
Night vision goggle training: Development and	cytokines p 280 A93-41123	in Aerospace Medicine [AGARD-CP-518] p 14 N93-11283
production of six video programs [AD-A258529] p 148 N93-20050	Altered immunological response in mice subjected to stress and exposed to fungal spores	Space flight and immune system p 14 N93-11284
[AD-A258529] p 148 N93-20050 IMAGES	[SAE PAPER 921215] p 274 A93-41391	Mechanisms of immune failure in burn injury p 15 N93-11285
Facilitation and interference in identification of pictures and words	Variability over time of complement activation induced	Clinical types of Hepatitis B p 15 N93-11286
[AD-A261484] p 260 N93-26356	by air bubbles in human and rabbit sera p 323 A93-42190	Hepatitis A and Hepatitis B: Risks compared to other vaccine preventable diseases and immunization
A tutorial on exit pupils and eye rotation with virtual image	Effect of hypoxic hypoxia on the immune response and	recommendations p 15 N93-11288
optical displays [AD-A262399] p 333 N93-29400	some factors of nonspecific resistance of human and animal organisms p 325 A93-43074	Vaccination against Hepatitis B: The Italian strategy p 15 N93-11289
IMAGING TECHNIQUES	Prolactin-induced mitogenesis of lymphocytes from	Silent HIV infection p 16 N93-11293
Pictorial communication in virtual and real environments	ovariectomized rats p 329 A93-44934 Immune and physiological mechanisms of hypoxic	Immunological parameters in current and former US Air Force personnel p 16 N93-11295
[ISBN 0-74840-008-7] p 182 A93-26896	reactions p 384 A93-51116	Early markers of HIV infection and subclinical disease
Quantitative Helmet Mounted Display system image quality model p 229 A93-30068	Use of novel adjuvants and delivery systems to improve the humoral and cellular immune response to malaria	progression p 17 N93-11296 Analysis of disease progression from clinical
Mapping of electrical muscle stimulation using MRI	vaccine candidate antigens p 20 N93-11308	observations of US Air Force active duty members infected
p 279 A93-40549 A feasibility study of hand kinematics for EVA analysis	Influence of microgravity on immune system and genetic information p 220 N93-24370	with the Human Immunodeficiency Virus: Distribution of AIDS survival time from interval censored observations
using magnetic resonance imaging	Effects of space radiation on humoral and cellular	p 17 N93-11297
[SAE PAPER 921253] p 298 A93-41423 Dark cycle monitoring of biological specimens on Space	immunity in rhesus monkeys [AD-A261808] p 246 N93-26259	Dramatic reduction of meningococcal meningitis among military recruits in Italy after introduction of specific
Station Freedom	IMMUNITY	vaccination p 18 N93-11303
[SAE PAPER 921393] p 274 A93-41551 System for generating dynamic video imagery for human	Heterogeneity of changes in lymphoproliferative ability with increasing age p 79 A93-20662	Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304
factors research	Cellular immunosenescence - An overview	Clinical and immunological response to vaccination with
[AD-A248675] p 31 N93-11743 Advanced technology for portable personal	p 80 A93-20663 Immune response during space flight	parenteral or oral vaccines in two groups of 30 recruits p 19 N93-11305
visualization	p 94 A93-20664	Studies of safety, infectivity, and immunogenicity of a
[AD-A253808] p 32 N93-11783 Functional MRI studies of human vision on a clinical	Influence of stress on lymphocyte subset distribution - A flow cytometric study in young student pilots	new Temperature Sensitive (TS) 51-1 strain of S. typhi as a new live oral typhoid fever vaccine candidate
imager	p 118 A93-25203	p 19 N93-11306
[DE92-017448] p 49 N93-12566 Integration of exterior lighting systems and night vision	Some indices of humoral immunity in Rhesus monkeys under the effect of extreme space flight factors	Recent lessons on the safety and effectiveness of malaria chemoprophylaxis in a non-immune population
imaging systems	p 241 A93-35258	p 19 N93-11307
[AD-A254826] p 63 N93-12732 Evaluation of Night Vision Goggles (NVG) for maritime	Relative resistance of biofilms and planktonic cells of common molds and yeasts to antimicrobials	Use of novel adjuvants and delivery systems to improve the humoral and cellular immune response to malaria
search and rescue (joint Canadian/US Coast Guard	[SAE PAPER 921212] p 273 A93-41388	vaccine candidate antigens p 20 N93-11308
experiment) [AD-A255525] p 70 N93-14554	Mechanisms of immune failure in burn injury p 15 N93-11285	Future approaches to vaccine development single-dose vaccines using controlled-release delivery systems
Evaluation of Night Vision Goggles (NVG) for maritime	Silent HIV infection p 16 N93-11293	p 20 N93-11310
search and rescue [AD-A257704] p 107 N93-17697	Immunological parameters in current and former US Air Force personnel p 16 N93-11295	Assessment of programs in space biology and medicine
Helmet-mounted area-of-interest display	Susceptibility in USAF recruits to vaccine preventable	[NASA-CR-190930] p 41 N93-13327
[AD-A258275] p 139 N93-18029 A new concept for helmet mounted vision	diseases p 18 N93-11301 Absence of protective immunity against diphtheria in a	Immunology presentation at the 1990 NASA/NSF Antarctica Biomedical Science Working Group
p 145 N93-19767	large proportion of young adults p 18 N93-11302	p 81 N93-16806
Human visual limitations on suprathreshold contrast perception through ANVIS	Studies of safety, infectivity, and immunogenicity of a new Temperature Sensitive (TS) 51-1 strain of S. typhi	Immunoconjugates: Magic bullets for cancer therapy? p 253 N93-25567
[AD-A259970] p 226 N93-24431	as a new live oral typhoid fever vaccine candidate	Effects of space radiation on humoral and cellular
Proceedings of Workshop 1: The Human Brainmap Database	p 19 N93-11306 Recent lessons on the safety and effectiveness of	immunity in rhesus monkeys [AD-A261808] p 246 N93-26259
[AD-A260720] p 258 N93-25654	malaria chemoprophylaxis in a non-immune population	IMPACT ACCELERATION
Imaging regional changes in the spontaneous activity	p 19 N93-11307 Use of novel adjuvants and delivery systems to improve	The effect of variable seat back angles on human
of the brain: An extension of the minimum-norm least-squares estimate	the humoral and cellular immune response to malaria	response to +Gz impact accelerations [AD-A250673] p 31 N93-11559
[AD-A261593] p 260 N93-26436	vaccine candidate antigens p 20 N93-11308 Cytokines as vaccine adjuvants: Interleukin 1 and its	A new instrumentation system for measuring the
Neuromagnetic investigation of cortical regions underlying short-term memory	synthetic peptide 163-171 p 20 N93-11309	dynamic response of the human head/neck during impact acceleration p 143 N93-19672
[AD-A261445] p 261 N93-26521	IMMUNOASSAY	IMPACT LOADS
EVA Glove Research Team [NASA-CR-193014] p 313 N93-27847	Early markers of HIV infection and subclinical disease progression p 17 N93-11296	Study on mechanical characteristics of viscera in dogs p 3 A93-13540
•	- · · · · · · · · · · · · · · · · · · ·	•

IMPACT RESISTANCE SUBJECT INDEX

Identification of degree of head injury caused by impact The effects of display and response codes on The role of Environmental Health System air quality p 4 A93-13720 information processing in an identification task loads in dog and rabbit monitors in Space Station Contingency Operations p 310 A93-41565 [AD-A259531] p 234 N93-23451 Things that go bump in the light - On the optical ISAE PAPER 9214141 specification of contact severity Visual processing of object velocity and acceleration Application of RADTRAN to estimation of doses to n 256 A93,35099 The limits of human impact acceleration tolerance LAD-A2610481 persons in enclosed spaces [AIAA PAPER 93-3572] p 400 A93-52692 A cognitive architecture for human performance process DE93-0007581 n 97 N93-17230 Two techniques for measuring locomotion impact forces model research Survey of protocols for conducting indoor air quality during zero G [AD-A261040] p 258 N93-25815 investigations in large buildings INASA-TP-33051 p 217 N93-23410 [PB93-119865] p 194 N93-21215 Duration of alpha suppression increases with angle in IMPACT RESISTANCE a mental rotation task INDUSTRIAL SAFETY Space based robot manipulators - Dynamics of contact p 260 N93-26435 IAD-A2615921 Kennedy Space Center environmental health program How expert pilots think: Cognitive processes in expert and trajectory planning for impact minimization p 166 A93-28713 p 135 A93-22827 decision making INFECTIOUS DISEASES p 288 N93-27103 The effects of brace position on injuries sustained in Control of infection in an international airline the M1 Boeing 737/400 disaster, January 1989 Quantification of human responses p 407 A93-52867 p 340 N93-29564 p 118 A93-25202 Allergic, Immunological and Infectious Disease Problems Protective helmet assembly The dynamics of visual representation, attention, in Aerospace Medicine [NASA-CASE-MSC-21842-1] p 106 N93-17088 encoding, and retrieval processes IAGARD-CP-5181 p 14 N93-11283 IMPACT TESTS [AD-A264674] n 342 N93-30543 The effect of variable seat back angles on human Communicable diseases: A major burden of morbidity Multiple neuron recording in the hippocampus of freely p 18 N93-11300 response to +Gz impact accelerations and mortality moving animals [AD-A264807] LAD-A2506731 p 31 N93-11559 Susceptibility in USAF recruits to vaccine preventable n 330 N93-30594 Design/development of an enhanced biodynamic p 18 N93-11301 The concentration loading test system: A computer diseases generated process for acquisition of attentiveness manikir p 142 Absence of protective immunity against diphtheria in a Improving manikin biofidelity p 142 N93-19668 p 18 N93-11302 control p 344 N93-31235 large proportion of young adults INFORMATION SYSTEMS The design and use of automotive crash test dummies Cytokines as vaccine adjuvants: Interleukin 1 and its p 142 N93-19669 p 20 N93-11309 The effect of roll-stabilized sensor information on pilot synthetic peptide 163-171 p 175 A93-27130 The application of Hybrid 3 dummy to the impact nerformance Allergic and nonallergic rhinitis in Greek pilots Format and structure of a database on health and assessment of a free-fall lifeboat p 143 N93-19671 p 21 N93-11317 p 81 N93-16804 A new instrumentation system for measuring the environmental impacts of different energy systems for Infectious disease dynamic response of the human head/neck during impact electricity generation [DE92-634160] INFERENCE acceleration p 12 N93-10222 p 143 N93-19672 Interpretation as abduction IMPAIRMENT Man-machine interface with simulated automatic target IAD-A259608 J p 225 N93-24227 The time-course of alcohol impairment of general LATABLE STRUCTURES recognition systems n 147 N93-19781 Operator Performance Support System (OPSS) aviation pilot performance in a Frasca 141 simulator Inflatable habitation for the lunar base p 384 A93-52299 p 196 N93-22195 p 106 N93-17442 The effects of Benadryl and Hismanal on psychomotor Conceptual design of a thermal control system for an Treatment of human-computer interface in a decision performance and perceived performance support system inflatable lunar habitat module p 385 A93-52303 p 237 N93-24502 [NASA-CR-192014] p 140 N93-18113 I DE93-0022811 **IMPLANTATION** A preliminary structural analysis of space-based Head mounted displays for virtual reality p 313 N93-27849 Optimal design of composite hip implants using NASA IAD-A2634981 p 322 N93-29340 inflatable tubular frame structures technology INFORMATION THEORY p 174 N93-22188 INFORMATION Modeling the performance of the human (pilot) interaction in a synthetic flight domain: Information The prevalence of artificial lens implants in the civil Eye movements and visual information processing [AD-A259955] p 225 N93-2airman population p 225 N93-24297 [DOT/FAA/AM-92/14] n 253 N93-25214 theoretic approach p 141 N93-19465 INFORMATION FLOW Shape optimization of tibial prosthesis components INFORMATION TRANSFER Applications of living systems theory to life in space p 246 N93-27085 [NASA-CR-191123] p 105 N93-16865 Methodology for ergonomic tests of the information IMPLANTED ELECTRODES (BIOLOGY) p 101 A93-18530 Management of avionics data in the cockpit display on monitor indicators Programmable interactive system for cochlear implant p 147 N93-19777 Pictorial communication in virtual and real electrode stimulation environments INFORMATION MANAGEMENT [AD-A262558] p 182 A93-26896 p 333 N93-29421 [ISBN 0-74840-008-7] Information management problems and their influence IN-FLIGHT MONITORING Headphone localization of speech stimuli on cockpit equipment architecture of transport aircraft p 176 A93-27143 Monitoring of pilot actions as part of a knowledge-based p 223 A93-31491 system for pilot assistance p 59 N93-15184 INFRARED DETECTORS Man-systems integration and the man-machine Model-based reasoning applied to cockpit warning p 313 N93-27795 Dark cycle monitoring of biological specimens on Space INFORMATION PROCESSING (BIOLOGY) Station Freedom systems p 147 N93-19778 INCANDESCENCE [SAE PAPER 921393] p 274 A93-41551 Consequences of a basic model of external-information Effects of incandescent radiation on photosynthesis, growth rate and yield of 'Waldmann's Green' leaf lettuce INFRARED IMAGERY p 98 A93-18414 perception Seamenting Electronic map interpretation in a dual-task context Retinal modeling: motion from spatio-temporal inputs using neural networks p 357 A93-46468 p 176 A93-27144 Growth and yield characteristics of 'Waldmann's Green p 125 N93-19369 Target designation in a perspective view, 3-D map using LAD-A2588541 leaf lettuce under different photon fluxes from metal halide INFRARED SPECTRA a joystick, hand tracker, or voice p 186 A93-27145 or incandescent + fluorescent radiation Enhancement of drug detection and identification by use A computer simulation model for attention distribution of various derivatizing reagents on GC-FTIR analysis p 357 A93-46469 p 340 A93-45323 and event generation p 95 N93-16041 INCINERATORS Disruption and maintenance of skilled visual search as INFRARED SPECTROMETERS Incineration for resource recovery in a closed ecologica a function of degree of consistency p 389 A93-52501 Transcutaneous analyte measuring methods p 409 A93-54826 life support system Headphone localization of speech p 333 N93-29509 [AD-A262861] p 394 A93-52507 INDEPENDENT VARIABLES INFRARED SPECTROPHOTOMETERS Multistage integration model for human egomotion Spontaneous discovery and use of categorical Enhancement of drug detection and identification by use structure | AIAA PAPER 93-3564 | p 406 A93-52664 of various derivatizing reagents on GC-FTIR analy IAD-A2616581 p 260 N93-26364 p 95 N93-16041 Neurophysiology of motion sickness 1AD-A2555821 INDEXES (DOCUMENTATION) p 399 A93-55932 INFRASONIC FREQUENCIES Aerospace medicine and biology: A cumulative index Morphological analysis of the hepatic structures in Auditory processing of complex sounds across to a continuing bibliography (supplement 371) frequency channels experimental animals after infrasonic exposure [NASA-SP-7011(371)] p 172 N93-20889 p 240 A93-35240 p 13 N93-10650 LAD-A2536121 Toxic substances registry system: Index of material INGESTION (BIOLOGY) Cognition in the brain: Investigations using positron safety data sheets Smoking status and body composition, exercise, dietary emission tomography [NASA-TM-108582] p 172 N93-20998 p 14 N93-10765 intake, and alcohol/caffeine consumption [AD-A254280] Bibliography of the Biosciences Division: 1986 to p 23 N93-11893 [AD-A250648] An introduction to the information processing present components of the brain I DCIEM-92-201 p 209 N93-23343 [RSRE-MEMO-4350] Biophysical and biochemical mechanisms in synaptic p 25 N93-10979 Index of international publications in aerospace transmitter release Simulation of excitatory/inhibitory interactions in single medicine [AD-A256340] p 55 N93-15198 auditory neurons [AD-A253614] p 284 N93-28306 LAD-A2629081 p 50 N93-13252 INJURIES INDOLES Psychophysical analyses of perceptual representations Study on mechanical characteristics of viscera in doos p 58 N93-14510 Investigation of effects of 60-Hz electric and magnetic p 3 A93-13540 LAD-A2554321 fields on operant and social behavior and on the neuroendocrine system of nonhuman primates: Identification of degree of head injury caused by impact loads in dog and rabbit p 4 A93-13720 Decision making in a dynamic task environment: The effect of time pressure Neuroendocrine portion of Experiment 4 Management of trauma and emergency surgery in p 58 N93-14602 LAD-A2565571 p 95 N93-16166 IDE92-0409551 Conversion of temporal correlations between stimuli to p 167 A93-28734 Potential health hazards from thermal degradation INDOOR AIR POLLUTION spatial correlations between attractors p 96 N93-16962 events - Particulate vs. gas phase effects Setting Spacecraft Maximum Allowable Concentrations I PREPRINT-8561

Effective neurons and attractor neural networks in

p 82 N93-17214

cortical environment

[PREPRINT-829]

p 282 A93-41546

[SAE PAPER 921388]

Determinants of +Gz-related neck pain - A preliminary urvey p 380 A93-49227

chemicals

[SAE PAPER 921410]

for 1 hour or 24 hour contingency exposures to airborne

p 310 A93-41564

SUBJECT INDEX

ION EXCHANGE RESINS

Fatal mishap report - First SPH-4B flight helmet INSTRUMENT FLIGHT RULES INTERVERTEBRAL DISKS recovered from a U.S. Army helicopter mishap Degeneration of cervical intervertebral disks in fighter Pilot intent and error recognition as part of a knowledge p 393 A93-52308 based cockpit assistant p 318 N93-28855 pilots frequently exposed to high + Gz forces INSTRUMENT LANDING SYSTEMS p 384 A93-52298 A prospective evaluation of stress fractures/overuse injuries in a population of West Point cadets Virtual landings --- developing Enhanced Vision Systems Rotating-wall vessel coculture of small intestine as a IAD-A2524271 p 410 A93-54868 n 13 N93-10709 Flight director information and pilot performance in prelude to tissue modeling - Aspects of simulated Development and enhancement of a model of instrument approaches p 171 A93-28765 performance and decision making under stress in a real microgravity [AD-A258186] p 131 N93-17857 life setting INTOXICATION An evaluation of B-18 pilot performance during simulated n 99 N93-16111 Pilot performance with blood alcohol concentrations instrument approaches with and without status Occupant kinematics simulation of the Kegworth air below 0.04 percent p 46 A93-16151 information accident p 142 N93-19662 The effect of low blood alcohol levels on pilot p 353 N93-29888 LAD-A2638741 provide additional performance in a series of simulated approach and landing Can injury scoring techniques INSULIN p 179 A93-27453 information for crash investigators? p 125 N93-19663 Effects of insulin and exercise on rat hindlimb muscles Fires on board aircraft: Toxicological risk in flight Is axial loading a primary mechanism of injury to the after simulated microgravity p 78 A93-20036
Differential effects of insulin resistance on leucine and p 126 N93-19694 lower limb in an impact aircraft accident? p 125 N93-19664 INTRACRANIAL PRESSURE p 152 A93-27224 glucose kinetics in obesity The design and use of automotive crash test dummies Case report - Chronic sub-dural hematoma following Simulated weightlessness and bone metabolism p 282 A93-41171 high-speed ejection p 142 N93-19669 Gravitational stimulation enhances insulin sensitivity An improved anthropometric test device p 168 A93-28736 Effects of acute hypoxia on intracranial dynamics in p 326 A93-44177 p 143 N93-19670 unanesthetized goats Regulation of the carbohydrate metabolism in humans p 384 A93-51117 INTRAOCULAR PRESSURE The application of Hybrid 3 dummy to the impact residing in the North assessment of a free-fall lifeboat p 143 N93-19671 Intraocular pressure in microgravity Effect of insulin-like factors on glucose transport activity An epidemiological study in SAF's pilots ejections p 85 A93-17539 in unweighted rat skeletal muscle p 399 A93-55458 p 143 N93-19699 The pigmentary dispersion disorder in USAF aviators INTEGRATED CIRCUITS Upper interior head protection. Volume 1. The p 87 A93-18033 Neural network retinal model real time implementation development of a research test procedure ular changes during IAD-A2556521 Intraocular pressure and retinal vaso p 52 N93-14210 transient exposure to microgravity PB93-113769 p 194 N93-21537 Upper interior head protection. Volume 2: Fleet p €78 A93-39710 IPB93-1137691 INTELLIGENCE INTRAVEHICULAR ACTIVITY The AFOSR Workshop on the Future of EEG and characterization and countermeasure evaluation A new method of Suction-cup shoes for astronauts -MEG p 195 N93-21795 IPB93-1137771 foot restraint p 62 A93-17072 p 335 N93-30160 LAD-A2643381 Cellular and tissue injury during nonfreezing cold injury Physical and digital simulations for IVA robotics INTERACTIVE CONTROL p 391 A93-49445 and froethite Dimensions of complexity in learning from interactive [AD-A260574] p 254 N93-25900 Automation and robotics human performance instruction --- for robotic systems deployed in space p 267 N93-26153 Secondary injury factors and preventative treatment [NASA-CR-193049] p 191 A93-29111 p 283 N93-27409 IP893-1760141 INTRAVENOUS PROCEDURES Architecture of autonomous systems Wound healing and connective tissue metabolism: The Effect of head-down bedrest on blood/plasma density INASA-CR-1929741 p 266 N93-26047 p 163 A93-28687 role of hyperbaric oxygen therapy after intravenous fluid load Interactive and cooperative sensing and control for LAD-A2624831 p 285 N93-28759 Diuresis and natriuresis following isotonic saline infusion Sudden loading and fatigue effects on the human advanced teleoperation in healthy young volunteers before, during, and after HDT p 163 A93-28688 INTERCRANIAL CIRCULATION (PB93-167526) p 286 N93-29199 INVENTIONS Effects of acute hypoxia on intracranial dynamics in unanesthetized goats Protective helmet assembly p 326 A93-44177 Procedures for the diagnostic dose resistance test kits [NASA-CASE-MSC-21842-1] p 106 N93-17088 INTERFACES for mosquitoes, body lice, and beetle pests of stored DOKMA: A document oriented communication model INVENTORIES The efficacy of biographical inventory data in predicting for medical applications as a basis of a role system in p 51 N93-13941 AD-A2552241 early attrition in naval aviation officer candidate training the medical field INSECTS p 131 N93-17919 IETN-93-937991 p 284 N93-28469 LAD-A2580251 Procedures for the diagnostic dose resistance test kits Toxic substances registry system: Index of material INTERFACIAL TENSION safety data sheets for mosquitoes, body lice, and beetle pests of stored Development of physical and mathematical models for the Porous Ceramic Tube Plant Nutrification System INASA-TM-1085821 p 172 N93-20998 products I AD-A2552241 p 51 N93-13941 INVERSE KINEMATICS (PCTPNS) INSPECTION Kinematics and control of a fully parallel force-reflecting INASA-TM-1075511 p.4 N93-10085 Satiation or availability? Effects of attention, memory, hand controller for manipulator teleoperation Effect of cytoskeletal reagents on stretch activated ion and imagery on the perception of ambiguous figures p 364 A93-45598 p 405 A93-55348 IODINE LAD-A2610891 p 245 N93-25764 Remote surface inspection system --- of large space Regenerable Microbial Check Valve - Life cycle tests INTERNATIONAL COOPERATION p 410 A93-55469 platforms p 156 A93-28738 Health in space - And on Earth |SAE PAPER 921316| Recognition of partially occluded threat objects using p 303 A93-41478 INTERPLANETARY FLIGHT the annealed Hopefield network p 142 N93-19466 Inactivation of a model coliphage virus in water by Interplanetary crew exposure estimates for galactic INSPIRATION iodina cosmic rays p 87 A93-17975 [SAE PAPER 921361] p 274 A93-41520 Respiration curves as an index of pilot workload INTERPLANETARY SPACE p 332 A93-45320 Generation of iodine disinfection by-products (IDP's) in Responses of Bacillus subtilis spores to space INSTALLING a water recycle system [SAE PAPER 921362] environment - Results from experiments in space Fires on board aircraft: Toxicological risk in flight p 307 A93-41521 p 268 A93-36556 Regenerable biocide delivery unit p 126 N93-19694 **INSTRUCTORS** INASA-CASE-MSC-21763-1-SBI INTERPLANETARY SPACECRAFT p 112 N93-18351 Success rate analysis of Navy SERGRAD Flight Human life support during interplanetary travel and Regenerable biocide delivery unit, volume 1 p 274 N93-27122 p 56 A93-16152 domicile. V - Mars expedition technology trade study for [NASA-CR-185701-VOL-1] Advances in training technology and the role of the ION CHARGE solid waste management Changes in the osmolality, p 98 A93-18775 ISAE PAPER 9211191 monovalent cation Suited for spacewalking: A teacher's guide with concentration, and protein structure of blood plasma under extreme conditions p 200 A93-31188 Human life support during interplanetary travel and activities domicile. VI - Generic modular flow schematic for hybrid INASA-EP-2791 p 65 N93-13692 ION CONCENTRATION physical/chemical-biological life support systems Prologue to Action. Life Sciences Education and Science Principles of the organization of calcium metabolism ISAE PAPER 9211201 p 290 A93-41312 p 7 A93-10124 Literacy INTERPRETATION [PB93-107514] p 159 N93-21230 ION CURRENTS Quantification of human responses INSTRUMENT APPROACH Silicon neuron p 340 N93-29564 Visual augmentation and scene detail effects in flight p 50 N93-12756 INTERPROCESSOR COMMUNICATION p 180 A93-27454 ION DENSITY (CONCENTRATION) Advanced satellite workstation: Instrument-approach-plate design considerations for Changes in the osmolality. monovalent cation workstation environment for operational support of satellite p 289 A93-39574 displaying radio frequencies concentration, and protein structure of blood plasma under p 33 N93-11941 system planning and analysis Human factors design principles for instrument approach extreme conditions p 200 A93-31188
ION EXCHANGE MEMBRANE ELECTROLYTES INTERSTELLAR CHEMISTRY procedure charts. Volume 1: Readability Comet Halley as an aggregate of interstellar dust and p 104 N93-15968 SPE water electrolyzers in support of the lunar further evidence for the photochemical formation of organics in the interstellar medium p 108 A93-17824 p 315 N93 27977 Flight director information and pilot performance in autnost instrument approaches ION EXCHANGE RESINS Carbonaceous chondrites and the origin of life Biofilm formation and control in a simulated spacecraft [AD-A258186] p 131 N93-17857 p 412 A93-55997 An evaluation of B-18 pilot performance during simulated instrument approaches with and without status water system - Three year results INTERSTELLAR MATTER p 303 A93-41472 [SAE PAPER 921310] Regenerable Microbial Check Valve Organic models of interstellar grains - Life cycle tests information p 35 A93-11847 [AD-A263874] p 353 N93-29888 results p 303 A93-41478 INSTRUMENT ERRORS INTERSTELLAR SPACE |SAE PAPER 921316]

Laboratory simulation of organic grain mantles

p 268 A93-36554

Accuracy of locating circular features using machine

vision --- for robotic systems

p 182 A93-27022

p 112 N93-18351

Regenerable biocide delivery unit

I NASA-CASE-MSC-21763-1-SBI

ION SOURCES SUBJECT INDEX

Regenerable biocide delivery unit, volume 1 Occupant kinematics simulation of the Kegworth air New techniques for positron emission tomography in [NASA-CR-185701-VOL-1] p 274 N93-27122 p 142 N93-19662 the study of human neurological disorders ION SOURCES [DE92-015353] p 23 N93-11873 The aircraft position tests: A computer generated Design of ion source of respiratory mass spectrometer New techniques for positron emission tomography in process for acquisition of spatial orientation capability p 344 N93-31236 p 11 A93-13713 the study of human neurological disorders IONIC MOBILITY IDE93-0020981 p 95 N93-15900 fon transport across membranes under exposure of the Procedures for the diagnostic dose resistance test kits Non-invasive evaluation of the cardiac autonomic organism to ionizing radiation --- Russian book for mosquitoes, body lice, and beetle pests of stored nervous system by PET HSBN 5-12-001601-41 p 243 A93-35679 products IDE92-041077| p 96 N93-16441 IONIZATION p 51 N93-13941 IAD-A2552241 Development of resonance ionization spectroscopy for Development of resonance ionization spectroscopy for KLEBSIELLA genome mapping and DNA sequencing using stable genome mapping and DNA sequencing using stable isotopes as DNA labels AFRRI reports isotopes as DNA labels LAD-A2545811 p 49 N93-12649 [DE93-007815] p 246 N93-26587 1DE93-0078151 p 246 N93-26587 KNEE (ANATOMY) ITALY **IONIZING RADIATION** Shape optimization of tibial prosthesis components Vaccination against Hepatitis B: The Italian strategy p 246 N93-27085 INASA-CR-1911231 Radiation exposure predictions for long-duration-stay p 15 N93-11289 KNOWLEDGE BASED SYSTEMS I AIAA PAPER 92-4584 I p 28 A93-13288 Dramatic reduction of meningococcal meningitis among Pilot intent and error recognition as part of a knowledge military recruits in Italy after introduction of specific On the biological effects of cosmic rays - Epidemiological p 318 N93-28855 based cockpit assistant p 18 N93-11303 p 239 A93-34858 Cognitive interface considerations for intelligent p 319 N93-28865 Ion transport across membranes under exposure of the cockpits organism to ionizing radiation --- Russian book KNOWLEDGE BASES (ARTIFICIAL INTELLIGENCE) |ISBN 5-12-001601-4| n 243 A93-35679 Knowledge-based task planning for the Special Purpose Dextrous Manipulator p 191 A93-29110 The role of serotonin and histamine in increasing the JAPANESE SPACECRAFT resistance of the organism to certain extreme conditions Dimensions of complexity in learning from interactive Manned lunar surface site: Conceptual study on p 324 A93-43034 instruction --- for robotic systems deployed in space pressurized lunar surface operation rover DoD space radiation concerns p 191 A93-29111 p 316 N93-28032 IAD-A2531351 p 13 N93-10613 Intelligent fault management for the Space Station active p 32 N93-11930 Radiation damage to DNA thermal control system Human biorhythms following interregional travel (with [DE92-015760] p 5 N93-10834 reference to Novosibirsk-Vladivostok flights) Molecular cytogenetics: A novel approach for measuring p 247 A93-35214 chromosome translocations in individuals years after The effect of combat on the work/rest schedules and exposure to low levels of ionizing radiation fatigue of A-6 and F-14 aviators during Operation Desert LABORATORIES LDF92-0180661 p 5 N93-10974 Shield/Storm Katz model prediction of Caenorhabditis elegans Possible biomedical applications and limitations of a AD-A2581461 p 122 N93-18292 variable-force centrifuge on the lunar surface: A research mutagenesis on STS-42 [NASA-TM-4383] The effects of an antijet lag diet p 370 N93-32263 p 83 N93-17458 tool and an enabling resource p 50 N93-13023 JP-8 JET FUEL LABORATORY EQUIPMENT AFRRI Reports --- Radiobiology The chronic effects of jP-8 jet fuel exposure on the [AD-A257231] Gravitational Biology Facility on Space Station: Meeting p 80 N93-15965 lungs the needs of space biology p 206 N93-22625 Target fragmentation in radiobiology [NASA-TM-4408] [AD-A264162] p 334 N93-30153 LABYRINTH p 124 N93-18381 JUDGMENTS reaction during free Turning-over fall **IRON COMPOUNDS** Influence of animation on dynamical judgments labyrinthectomized rats after a flight on the Cosmos 936 Magnetic domain state and coercivity predictions for p 180 A93-28692 p 241 A93-35246 biogenic greigite (Fe3S4) - A comparison of theory with biosatellite Measures of user-system interface effectiveness: Neurophysiology of motion sickness magnetosome observations p 38 A93-16481 Assessment of structured judgment evaluation techniques p 399 A93-55932 Mineral theories of the origin of life and an iron sulfide for graphical, direct-manipulation style interfaces LACTATES example p 74 A93-18009 p 63 N93-12576 LAD-A2544931 Beta-adrenergic blockade and lactate metabolism during **IRON OXIDES** Workshop on Aeronautical Decision Making (ADM). exercise at high altitude Ferrous iron oxidation by anoxygenic phototrophic Volume 1: Executive summary p 334 N93-29820 acteria p 271 A93-39280
The binding and reactions of nucleotides and IAD-A2635441 [AD-A257016] p 99 N93-16189 LÀCTIC ACID Decision paths in complex tasks Autoradiographic distribution and applied polynucleotides on iron oxide hydroxide polymorphs p 132 N93-18359 INASA-CR-1921211 pharmacological characteristics of dextromethorphan and p 325 A93-43795 Quantification of human responses related antitissue/anticonvulsant drugs and novel IRRADIATION p 340 N93-29564 Analysis of retinal function following laser irradiation analogs [AD-A255607] p 54 N93-15009 [AD-A255649] p 52 N93-14163 LAKES Κ AFRRI Reports --- Radiobiology Methane transport mechanisms and isotopic [AD-A257231] p 80 N93-15965 fractionation in emergent macrophytes of an Alaskan Utilization of high energy electron beam in the treatment K STARS p 38 A93-16544 tundra lake of drinking and waste water Habitable zones around main sequence stars [DE92-642335] LAMINATES p 372 N93-32406 p 197 A93-28376 Optimal design of composite hip implants using NASA **ISCHEMIA** KALMAN FILTERS p 174 N93-22188 Statistical analysis of the human strangulation experiments: Comparison to +Gz-induced loss of technology Kalman-filter-based machine vision for controlling LANDING free-flying unmanned remote vehicles The effect of geometric field of view and tunnel design for perspective flight-path displays consciousness p 135 A93-22916 IAD-A2554851 p 54 N93-14789 ISAE PAPER 9211311 p 291 A93-41319 ISOLATION Recent lessons on the safety and effectiveness of An evaluation of B-1B pilot performance during simulated The psychological effects of isolation on a space station malaria chemoprophylaxis in a non-immune population A simulation study instrument approaches with and without status p 19 N93-11307 information |SAE PAPER 921191| p 287 A93-41369 LAD-A2638741 p 353 N93-29888 A core facility for the study of neurotoxins of biological Effects of vitamin D and phosphorus level in diet on LANDING LOADS origin bone, skeletal muscle and kidney in suspended rats A study of biological effects and characteristics of IAD-A2543591 p 50 N93-12945 p 77 dynamic responses of organism on landing impact p 10 A93-13533 Cultivation of Hamster Kidney cells in a Dynamic Cell Nutrition p 81 N93-16805 Culture System in space (Spacelab IML-1 mission) Long-duration isolation and confinement: Human factors LANGUAGES p 200 A93-32071 issues and research requirements p 100 N93-16808 Products of genes, Cognitive competencies -Renal hemodynamics, tubular function, and response experience, and technology --- for training of primates Applications of living systems theory to life in space to low-dose dopamine during acute hypoxia in humans p 105 N93-16865 p 201 A93-32113 p 332 A93-44180 Learning about primates' learning, language, and pgnition p 201 A93-32124 **ISOMERS** KINEMATICS Detection of genetic effects of excess near-ultraviolet A feasibility study of hand kinematics for EVA analysis irradiation under exobiology conditions LARGE SPACE STRUCTURES using magnetic resonance imaging p 39 A93-17446 Evaluation of inertial devices for the control of large, ISAE PAPER 9212531 p 298 A93-41423 flexible, space-based telerobotic arms ISOTONICITY A feasibility study of hand kinematics for EVA analysis p 101 A93-18710 Role of atrial natriuretic peptide in systemic response using magnetic resonance imaging p 313 N93-27848 p 44 A93-14968 to acute isotonic volume expansion Development of a large space robot - A multi-segment KINETIC ENERGY Diuresis and natriuresis following isotonic saline infusion Design of a reusable kinetic energy absorber for an [AIAA PAPER 93-1463] p 261 A93-34012 in healthy young volunteers before, during, and after stronaut safety tether to be used during extravehicular HDT p 163 A93-28688 Development of a large space robot - A multi-segment activities on the Space Station approach, II ISOTOPE EFFECT [NASA-CR-192015] p 139 N93-17973 JAIAA PAPER 93-1464) p 262 A93-34013 13 C NMR spectra of allosteric effectors of hemoglobin KINETICS LASER APPLICATIONS Kinetic tetrazolium microtiter assay p 284 N93-28293 p 82 N93-17049 The pigmentary dispersion disorder in USAF aviators [AD-A262979] [NASA-CASE-MSC-21979-1] p 87 A93-18033 ISOTOPIC LABELING Statistically based decompression tables Center of Excellence in laser medicine Freeze-dried human red blood cells Linear-exponential kinetics

p 120 N93-17926

[DE92-018760]

p 22 N93-11445

AD-A253295

p 14 N93-11193

[AD-A257613]

SUBJECT INDEX

LIFE SUPPORT SYSTEMS

SUBJECT INDEX		LIFE SUPPORT SYSTEMS
LASER BEAMS	LEG (ANATOMY)	NASA/NSF Workshop on Antarctic Research
Effects of laser glare on visual search performance	Effects of head-down tilt for 10 days on the compliance	p 81 N93-16803
p 180 A93-28158 LASER DAMAGE	of the leg p 162 A93-28680 Anthropometry of the foot and lower leg of U.S. Army	Infectious disease p 81 N93-16804 Nutrition p 81 N93-16805
Effects of laser glare on visual search performance	soldiers: Fort Jackson, SC	Immunology presentation at the 1990 NASA/NSF
p 180 A93-28158 Analysis of retinal function following laser irradiation	[AD-A261405] p 268 N93-26404 LENSES	Antarctica Biomedical Science Working Group p 81 N93-16806
[AD-A255649] p 52 N93-14163	The prevalence of artificial lens implants in the civil	Exercise during long term exposure to space: Value of
Investigation of laser-induced retinal damage [AD-A264096] p 338 N93-31094	airman population DOT/FAA/AM-92/14 p 253 N93-25214	exercise during space exploration p 82 N93-16807 Long-duration isolation and confinement: Human factors
LASER MATERIALS	A fiber optic probe for the detection of cataracts	issues and research requirements p 100 N93-16808
Studies of a laser/nuclear thermal hardened body	p 254 N93-25593 A study of the effects of lens focal length on remote	Aerospace medicine and biology: A continuing bibliography with indexes (supplement 370)
armor [AD-A255128] p 34 N93-12423	driver performance	[NASA-SP-7011(370)] p 121 N93-18108
LASER WEAPONS	[AD-A263191] p 321 N93-28941 LESIONS	Aerospace medicine and biology: A continuing bibliography with indexes (supplement 372)
Studies of a laser/nuclear thermal hardened body armor	Neuropsychological components of object	[NASA-SP-7011(372)] p 172 N93-21044
[AD-A255128] p 34 N93-12423	identification (AD-A261449) p 259 N93-26347	Space life sciences overview p 158 N93-21074 Prologue to Action. Life Sciences Education and Science
LATENT HEAT Conceptual design of a lunar base thermal control	Analysis of visual loss from retinal lesions	Literacy
system p 68 N93-14003	AD-A264692 p 336 N93-30494 LEUKOCYTES	[PB93-107514] p 159 N93-21230 Environmental health discipline science plan
LATERAL CONTROL	Alteration in human mononuclear leucocytes following	[NASA-TM-108042] p 173 N93-21369
The effect of roll-stabilized sensor information on pilot performance p 175 A93-27130	space flight p 165 A93-28705 Features of an ethanol effect in operators with different	Space human factors discipline science plan [NASA-TM-108023] p 194 N93-21370
The effects of field of view size on the control of roll	states of skin tissue basophils p 250 A93-35252	Life sciences utilization of Space Station Freedom
motion p 349 A93-43722 LATERAL STABILITY	Influence of in vivo hypobaric hypoxia on function of lymphocytes, neutrocytes, natural killer cells, and	p 205 N93-22622 Life sciences recruitment objectives
The effect of roll-stabilized sensor information on pilot	cytokines p 280 A93-41123	p 205 N93-22623
performance p 175 A93-27130 LAUNCH ESCAPE SYSTEMS	LEVERS Portable seat lift	Biomedical Monitoring and Countermeasures Facility p 205 N93-22624
A comparison of two Shuttle launch and entry suits -	[NASA-CASE-MFS-28610-1] p 106 N93-17045	Gravitational Biology Facility on Space Station: Meeting
Reach envelope, isokinetic strength, and treadmill tests [SAE PAPER 921154] p 293 A93-41337	LIFE (DURABILITY) The life span of the biosphere revisited	the needs of space biology p 206 N93-22625 An on-orbit viewpoint of life sciences research
LAUNCH VEHICLES	p 149 A93-21847	p 206 N93-22629
Autonomous support for microorganism research in space	Regenerable Microbial Check Valve - Life cycle tests results	Crew health p 217 N93-22630 Bibliography of the Biosciences Division: 1986 to
[NASA-CR-192062] p 83 N93-17780	[SAE PAPER 921316] p 303 A93-41478	present
Candidate technologies for the Integrated Health Management Program	LIFE RAFTS Evaluation of Night Vision Goggles (NVG) for maritime	[DCIEM-92-20] p 209 N93-23343 JPRS report: Science and technology. Central Eurasia:
[NASA-CR-192520] p 217 N93-22655	search and rescue	Life sciences
LAUNCHING The application of Hybrid 3 dummy to the impact	[AD-A257704] p 107 N93-17697 LIFE SCIENCES	[JPRS-ULS-92-025] p 244 N93-25405 Aerospace medicine and biology: A continuing
assessment of a free-fall lifeboat p 143 N93-19671	The space life sciences strategy for the 21st century	bibliography with indexes (supplement 373)
Investigation of the effects of Extra Vehicular Activity (EVA) and Launch and Entry (LES) gloves on	p 1 A93-10636 A lunar-based chemical analysis laboratory	[NASA-SP-7011(373)] p 256 N93-26945 JPRS report: Science and technology. Central Eurasia:
performance p 266 N93-26061	[ISBN 0-937194-25-5] p 39 A93-17426 Comets and the origins and evolution of life; Proceedings	Life sciences
LAVA Evolving concepts of lunar architecture: The potential	of the Conference, Univ. of Wisconsin, Eau Claire, Sept.	[JPRS-ULS-93-005] p 276 N93-28683 JPRS report: Science and technology. Central Eurasia:
of subselene development p 107 N93-17447	30-Oct. 2, 1991 p 109 A93-17976 Dark matter in the solar system - Hydrogen cyanide	Life sciences
LAYERS Evaluation of multilayer mask concept for RESPO 21	polymers p 110 A93-17987	[JPRS-ULS-92-027] p 276 N93-28684 Spontaneous regulating mechanisms that may have led
[AD-A253392] p 33 N93-12079 LEACHING	Challenges of space medical operations and life sciences management p 155 A93-28716	to the origin of life [DE93-603677] p 331 N93-31161
Characterization of the water soluble component of	The Biological Flight Research Facility	Aerospace medicine and biology: A continuing
inedible residue from candidate CELSS crops [NASA-TM-107557] p 139 N93-18111	p 239 A93-34581 Microfossils of the Early Archean Apex chert - New	bibliography with indexes (supplement 377) [NASA-SP-7011(377)] p 361 N93-31924
Chemical characterization of some aqueous leachates	evidence of the antiquity of life p 272 A93-40308	LIFE SPAN
from crop residues in 'CELSS' p 115 N93-19399 LEAF AREA INDEX	Aerospace medicine and biology: A continuing bibliography with indexes (supplement 365)	The life span of the biosphere revisited p 149 A93-21847
Effects of incandescent radiation on photosynthesis,.	[NASA-SP-7011(365)] p 12 N93-10075	LIFE SUPPORT SYSTEMS
growth rate and yield of 'Waldmann's Green' leaf lettuce p 357 A93-46468	Aerospace medicine and biology: A continuing bibliography with indexes (supplement 360)	Experimental research of the temperature and humidity control system for manned spacecraft cabin
Growth and yield characteristics of 'Waldmann's Green'	[NASA-SP-7011(360)] p 12 N93-10076	p 10 A93-13529
leaf lettuce under different photon fluxes from metal halide or incandescent + fluorescent radiation	Aerospace medicine and biology: A continuing bibliography with indexes (supplement 364)	Controlled Ecological Life Support System - CELSS p 62 A93-17432
p 357 A93-46469	(NASA-SP-7011(364)) p 12 N93-10077	Engineering and technical support of experiments on
LEARNING Comparative assessment of psychomotor performance	Aerospace medicine and biology: A continuing bibliography with indexes (supplement 366)	board the Cosmos-2044 biosatellite p 77 A93-18419 Controlled Ecological Life Support System (CELSS)
- Target prediction by humans and macaques (Macaca	[NASA-SP-7011(366)] p 12 N93-10079	modeling p 137 A93-25308
mulatta) p 204 A93-33035 Questioning mechanisms during complex learning	Aerospace medicine and biology: A continuing bibliography with indexes (supplement 367)	Life support research and development for the Department of Energy Space Exploration Initiative
[AD-A247382] p 26 N93-11415	[NASA-SP-7011(367)] p 12 N93-10080 JPRS report: Science and technology. Central Eurasia:	p 137 A93-25309
A psychometrically sound cognitive diagnostic model: Effect of remediation as empirical validity	Life sciences	Dynamic multiobjective decision and its application in environmental control and life support system
[AD-A255926] p 52 N93-14109	[JPRS-ULS-92-024] p 40 N93-13033 Assessment of programs in space biology and	p 230 A93-30439
Dual-task training strategies and aging [AD-A258261] p 131 N93-18027	medicine	Influence of space-flight factors on growth of spirulina p 199 A93-30441
LEARNING THEORY	[NASA-CR-190930] p 41 N93-13327 A health care system for the Space Station	Bioregenerative life support as self-sustaining ecosystem in space p 231 A93-32073
Cognitive competencies - Products of genes, experience, and technology for training of primates	[NASA-TM-108093] p 65 N93-13571	Space Station Water Processor - Current flight design
p 201 A93-32113	Aerospace medicine and biology: A continuing bibliography with indexes (supplement 368)	[SAE PAPER 921112] p 289 A93-41306 Overview of NASA's 1991 Life Support Systems Analysis
Learning about primates' learning, language, and cognition p 201 A93-32124	[NASA-SP-7011(368)] p 53 N93-14603	Workshop
Cell wall and enzyme changes during the gravitesponse	Aerospace medicine and biology: A continuing bibliography with indexes (supplement 369)	[SAE PAPER 921118] p 290 A93-41310 Human life support during interplanetary travel and
Cell wall and enzyme changes during the graviresponse of the leaf-sheath pulvinus of oat (Avena sativa)	[NASA-SP-7011(369)] p 53 N93-14731	domicile. V - Mars expedition technology trade study for
p 329 A93-44941	Publications of the Space Physiology and Countermeasures Program, Neuroscience Discipline:	solid waste management [SAE PAPER 921119] p 290 A93-41311
Dynamics of auxin movement in the gravistimulated leaf-sheath pulvinus of oat (Avena sativa)	1980-1990	Human life support during interplanetary travel and
p 358 A93-46472 Resource capture by single leaves	[NASA-CR-4476] p 55 N93-15583 STS-40 Spacelab Life Sciences 1 (SLS-1): The first	domicile. VI - Generic modular flow schematic for hybrid physical/chemical-biological life support systems
[DE92-015847] p 5 N93-10461	dedicated spacelab life sciences mission	[SAE PAPER 921120] p 290 A93-41312
LECTURES Aviation medicine research: A historical review	[NASA-TM-108034] p 80 N93-15823 NASA/NSF Antarctic Science Working Group	Recycling and source reduction for long duration space habitation
AD-A258198 p 121 N93-18217	p 81 N93-16802	SAE PAPER 921121 p 290 A93-41313

SUBJECT INDEX **LIFEBOATS**

TRIALSS - Tool for Rapid and Intelligent Advanced Life		
	Advanced life support systems in lunar and Martian	Crop growth and associated life support for a lunar
Support System Selection and Sizing	environments utilizing a higher plant based engineering	farm p 67 N93-13994
[SAE PAPER 921123] p 291 A93-41315	paradigm	Engineering verification of the biomass production
A low pressure electrolyzer for the next generation	SAE PAPER 921286 p 302 A93-41452	chamber p 67 N93-13996
submarine	Consumables and wastes estimations for the First Lunar	Scenarios for optimizing potato productivity in a lunar
[SAE PAPER 921125] p 291 A93-41316	Outpost	CELSS p 67 N93-13997 Potential of derived lunar volatiles for life support
The development of an atmosphere composition monitor for the Environmental Control and Life Support System	[SAE PAPER 921287] p 302 A93-41453	p 67 N93-13998
SAE PAPER 921149 p 292 A93-41333	Portable life support system regenerative carbon dioxide	Technology development for lunar base water
Oxygen generation by static feedwater electrolysis for	and water vapor removal by metal oxide absorbents	recycling p 67 N93-13999
Space Station Freedom	preprototype hardware development and testing	Plasma reactor waste management systems
[SAE PAPER 921151] p 293 A93-41335	[SAE PAPER 921299] p 303 A93-41464	p 68 N93-14000
The Centrifuge Facility Life Sciences Glovebox	Biodeterioration of materials in water reclamation	Distribution of human waste samples in relation to sizing
configuration study	systems	waste processing in space p 68 N93-14001
[SAE PAPER 921158] p 293 A93-41341	[SAE PAPER 921311] p 303 A93-41473	Aerospace medicine and biology: A continuing
Zero gravity phase separator technologies - Past,	Determination of organic carbon and ionic accountability	bibliography with indexes (supplement 369)
present and future	of various waste and product waters derived from ECLSS water recovery tests and Spacelab humidity condensate	[NASA-SP-7011(369)] p 53 N93-14731
[SAE PAPER 921160] p 293 A93-41342	[SAE PAPER 921313] p 303 A93-41475	Annual report
Conceptual design of ECLSS microgravity test beds	Gray water recycling with a unique vapor compression	[NASA-CR-191389] p 105 N93-16840
[SAE PAPER 921164] p 294 A93-41346	distillation (VCD) design	Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399
Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere	[SAE PAPER 921318] p 304 A93-41480	from crop residues in 'CELSS' p 115 N93-19399 A membrane-based subsystem for water-vapor recovery
revitalization (AR) predevelopment operational system test	Membrane technology for zero gravity life support	from plant-growth chambers
(POST) for the Space Station Freedom (SSF)	systems	[NASA-CR-177602] p 149 N93-20065
[SAE PAPER 921186] p 294 A93-41365	[SAE PAPER 921320] p 304 A93-41482	Study on environment control and life support
Development of the carbon dioxide removal system	Operation of a breadboard	technology p 149 N93-20413
blower used on Space Station Freedom	liquid-sorbent/membrane-contactor system for removing	Space Station ECLSS integration analysis
[SAE PAPER 921188] p 294 A93-41367	carbon dioxide and water vapor from air	[NASA-CR-192470] p 195 N93-22002
Crop interactions in polyculture and their implications	[SAE PAPER 921321] p 304 A93-41483	Integrated oxygen recovery system
for CELSS design	Recent regenerative ECLSS technology developments	[NASA-CR-192343] p 234 N93-22663
[SAE PAPER 921197] p 295 A93-41373	in Europe	Space life support technology applications to terrestrial
A trade study method for determining the design	[SAE PAPER 921332] p 304 A93-41493	environmental problems p 265 N93-25617
parameter of CELSS subsystems	Life Support and Habitability Manual ESA PSS-03-406	Advanced life support study. Modification 10: ECLSS
[SAE PAPER 921198] p 295 A93-41374	[SAE PAPER 921338] p 305 A93-41497	logistical support analysis for Space Station Freedom
European involvement in CELSS - Definition of a Closed	Test of the Shuttle Extended Duration Orbiter (EDO)	[NASA-CR-192481] p 266 N93-25888 Membrane technology: A search for membranes for
Ecological Systems Test Bed [SAE PAPER 921200] p 295 A93-41376	Waste Collection Subsystem (WCS)	submarine atmosphere control
Functions simulation model of integrated regenerable	[SAE PAPER 921346] p 305 A93-41505	[AD-A260581] p 266 N93-25904
life support system	Shuttle Orbiter Environmental Control and Life Support System - Flight experience	Integrated oxygen recovery system
[SAE PAPER 921201] p 295 A93-41377	[SAE PAPER 921348] p 305 A93-41507	[NASA-CR-192982] p 267 N93-26088
A systems approach to water recovery testing for space	Air Handling and Atmosphere Conditioning systems for	1991 NASA Life Support Systems Analysis workshop
life support - Initial biomedical results from the ECLSS	manned spacecraft - A design and performance data	[NASA-CR-4466] p 310 N93-27100
Water Recovery Test and plans for testbed utilization	survey	1992 NASA Life Support Systems Analysis workshop
[SAE PAPER 921210] p 295 A93-41386	[SAE PAPER 921350] p 306 A93-41509	[NASA-CR-4467] p 310 N93-27101
Dew point analysis for Space Station Freedom	Modeling of membrane processes for air revitalization	Environmental control and life support system
[SAE PAPER 921227] p 296 A93-41401	and water recovery	p 311 N93-27718
Comparative test data assessment and simplified math	[SAE PAPER 921352] p 306 A93-41511	Environmental control and life support system evolution p 311 N93-27719
modelling for Sabatier CO2 reduction subsystem	Plant canopy transpiration in bioregenerative life support	Technologies for ECLSS evolution
[SAE PAPER 921228] p 296 A93-41402	systems - The link between mechanistic and empirical models	p 311 N93-27720
Simplified analysis of water distribution for Space Station	[SAE PAPER 921355] p 306 A93-41514	The ECLSS advanced automation project evolution and
Freedom [SAE PAPER 921230] p 296 A93-41404	Biomass productivity and sustainability of a	technology assessment p 312 N93-27723
• •	bioregenerative life-support system	Marshall Space Flight Center ECLSS technology
Evaluation of the carbon dioxide removal assembly requirements for the Space Station Freedom in the Manned	[SAE PAPER 921359] p 307 A93-41518	activities p 312 N93-27724
Tended Capability through Permanently Manned Capability	Regenerative Life Support Systems Test Bed	JSC ECLSS R/T program overview
configurations	performance - Lettuce crop characterization	p 312 N93-27725
[SAE PAPER 921231] p 297 A93-41405	SAE PAPER 921391 p 309 A93-41549	Evolving EVA system capability for the evolving Space
Development of the nitrogen fixation system for	Experimental and theoretical study on membrane	Station Freedom requirements p 312 N93-27791, Environmental control and life support systems
CELSS	distillation using thermopervaporation ISAE PAPER 921397 I p 309 A93-41554	p 314 N93-27858
[SAE PAPER 921238] p 297 A93-41411	[SAE PAPER 921397] p 309 A93-41554 Hermes ECLSS - Main requirements and technical	
Consent of weeks transferring machinisms		Oxygen production on the Lunar materials processing
Concept of waste transferring mechanisms		Oxygen production on the Lunar materials processing frontier p 315 N93-27967
[SAE PAPER 921239] p 297 A93-41412	solutions	
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results		frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results Object-oriented Controlled Ecological Life Support	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results Object-oriented Controlled Ecological Life Support System Analysis and Modeling	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results Object-oriented Controlled Ecological Life Support System Analysis and Modeling [SAE PAPER 921241] p 298 A93-41413	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results Object-oriented Controlled Ecological Life Support System Analysis and Modeling [SAE PAPER 921241] p 298 A93-41413 System integration and verification approach for the	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127 Regenerative life support technology challenges for the	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results Object-oriented Controlled Ecological Life Support System Analysis and Modeling [SAE PAPER 921241] p 298 A93-41413 System integration and verification approach for the environmental control system of the Columbus Attached Pressurised Module [SAE PAPER 921261] p 299 A93-41431	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Selenia: A habitability study for the development of a
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results Object-oriented Controlled Ecological Life Support System Analysis and Modeling [SAE PAPER 921241] p 298 A93-41413 System integration and verification approach for the environmental control system of the Columbus Attached Pressurised Module [SAE PAPER 921261] p 299 A93-41431 The analytical control program for the NASA Space	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 LIAC - A closed ecosystem research facility Life In	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Selenia: A habitability study for the development of a third generation lunar base p 352 N93-29748
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 LIAC - A closed ecosystem research facility Life In A Can p 347 A93-42129	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Selenia: A habitability study for the development of a third generation lunar base p 352 N93-29748 Aerospace medicine and biology: A continuing
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 LIAC - A closed ecosystem research facility Life In	frontier Assessment of the state of the art in life support environmental control for SEI p 315 N93-27967 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Selenia: A habitability study for the development of a third generation lunar base p 352 N93-29748 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 377)
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results Object-oriented Controlled Ecological Life Support System Analysis and Modeling [SAE PAPER 921241] p 298 A93-41413 System integration and verification approach for the environmental control system of the Columbus Attached Pressurised Module [SAE PAPER 921261] p 299 A93-41431 The analytical control program for the NASA Space Station Freedom Environmental Control and Life Support System (ECLSS) Water Recovery Test [SAE PAPER 921269] p 300 A93-41439	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 LIAC - A closed ecosystem research facility Life In A Can p 347 A93-42129 An integrated human/plant metabolic mass balance	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Selenia: A habitability study for the development of a third generation lunar base p 352 N93-29748 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 377) [NASA-SP-7011(377)] p 361 N93-31924
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 LIAC - A closed ecosystem research facility Life In A Can p 347 A93-42129 An integrated human/plant metabolic mass balance model p 347 A93-42130 Space habitat environmental health - A systems issue p 347 A93-42151	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Selenia: A habitability study for the development of a third generation lunar base p 352 N93-29748 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 377) [NASA-SP-7011(377)] p 361 N93-31924 Microbiological test results of the environmental control
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results Object-oriented Controlled Ecological Life Support System Analysis and Modeling [SAE PAPER 921241] p 298 A93-41413 System integration and verification approach for the environmental control system of the Columbus Attached Pressurised Module [SAE PAPER 921261] p 299 A93-41431 The analytical control program for the NASA Space Station Freedom Environmental Control and Life Support System (ECLSS) Water Recovery Test [SAE PAPER 921269] p 300 A93-41439	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 LIAC - A closed ecosystem research facility Life In A Can p 347 A93-42129 An integrated human/plant metabolic mass balance model p 347 A93-42130 Space habitat environmental health - A systems issue p 347 A93-42151 Implementation of biological elements in life support	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Selenia: A habitability study for the development of a third generation lunar base p 352 N93-29748 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 377) [NASA-SP-7011(377)] p 361 N93-31924
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results	solutions SAE PAPER 921400 p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 LIAC - A closed ecosystem research facility Life In A Can p 347 A93-42129 An integrated human/plant metabolic mass balance model p 347 A93-42130 Space habitat environmental health - A systems issue p 347 A93-42151 Implementation of biological elements in life support systems - Rationale and development milestones	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Selenia: A habitability study for the development of a third generation lunar base p 352 N93-29748 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 377) [NASA-SP-7011(377)] p 361 N93-31924 Microbiological test results of the environmental control and life support systems vapors compression distillation subsystem recycle tank components following various pretreatment protocols
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 LIAC - A closed ecosystem research facility Life In A Can p 347 A93-42129 An integrated human/plant metabolic mass balance model p 347 A93-42130 Space habitat environmental health - A systems issue p 347 A93-42151 Implementation of biological elements in life support systems - Rationale and development milestones p 390 A93-49302	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Selenia: A habitability study for the development of a third generation lunar base p 352 N93-29748 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 377) [NASA-SP-7011(377)] p 361 N93-31924 Microbiological test results of the environmental control and life support systems vapors compression distillation subsystem recycle tank components following various pretreatment protocols [NASA-CR-192570] p 359 N93-32354
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 LIAC - A closed ecosystem research facility Life In A Can p 347 A93-42129 An integrated human/plant metabolic mass balance model p 347 A93-42130 Space habitat environmental health - A systems issue p 347 A93-42151 Implementation of biological elements in life support systems - Rationale and development milestones p 390 A93-49302 Life support systems	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Selenia: A habitability study for the development of a third generation lunar base p 352 N93-29748 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 377) [NASA-SP-7011(377)] p 361 N93-31924 Microbiological test results of the environmental control and life support systems vapors compression distillation subsystem recycle tank components following various pretreatment protocols [NASA-CR-192570] p 359 N93-32354 Optimization of 15 parameters influencing the long-term
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results Object-oriented Controlled Ecological Life Support System Analysis and Modeling [SAE PAPER 921241] p 298 A93-41413 System integration and verification approach for the environmental control system of the Columbus Attached Pressurised Module [SAE PAPER 921261] p 299 A93-41431 The analytical control program for the NASA Space Station Freedom Environmental Control and Life Support System (ECLSS) Water Recovery Test [SAE PAPER 921269] p 300 A93-41439 An assessment of waste processing/resource recovery technologies for lunar/Marsilide applications [SAE PAPER 921271] p 300 A93-41441 Catalytic oxidation for treatment of ECLSS and PMMS waste streams Process Material Management Systems [SAE PAPER 921274] p 301 A93-41443	solutions SAE PAPER 921400 p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 LIAC - A closed ecosystem research facility Life In A Can p 347 A93-42129 An integrated human/plant metabolic mass balance model p 347 A93-42130 Space habitat environmental health - A systems issue p 347 A93-42151 Implementation of biological elements in life support systems - Rationale and development milestones p 390 A93-49302 Life support systems LAS PAPER 91-320 P 409 A93-54308	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Selenia: A habitability study for the development of a third generation lunar base p 352 N93-29748 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 377) [NASA-SP-7011(377)] p 361 N93-31924 Microbiological test results of the environmental control and life support systems vapors compression distillation subsystem recycle tank components following various pretreatment protocols [NASA-CR-192570] p 359 N93-32354 Optimization of 15 parameters influencing the long-term survival of bacteria in aquatic systems
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 LIAC - A closed ecosystem research facility Life In A Can p 347 A93-42129 An integrated human/plant metabolic mass balance model p 347 A93-42130 Space habitat environmental health - A systems issue p 347 A93-42151 Implementation of biological elements in life support systems - Rationale and development milestones p 390 A93-49302 Life support systems [AAS PAPER 91-320] p 409 A93-54308 Remote medical systems for the human exploration of	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Selenia: A habitability study for the development of a third generation lunar base p 352 N93-29748 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 377) [NASA-SP-7011(377)] p 361 N93-31924 Microbiological test results of the environmental control and life support systems vapors compression distillation subsystem recycle tank components following various pretreatment protocols [NASA-CR-192570] p 359 N93-32354 Optimization of 15 parameters influencing the long-term survival of bacteria in aquatic systems [NASA-CR-192571] p 359 N93-32365
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results Object-oriented Controlled Ecological Life Support System Analysis and Modeling [SAE PAPER 921241] p 298 A93-41413 System integration and verification approach for the environmental control system of the Columbus Attached Pressurised Module [SAE PAPER 921261] p 299 A93-41431 The analytical control program for the NASA Space Station Freedom Environmental Control and Life Support System (ECLSS) Water Recovery Test [SAE PAPER 921269] p 300 A93-41439 An assessment of waste processing/resource recovery technologies for lunar/Mars life applications [SAE PAPER 921271] p 300 A93-41441 Catalytic oxidation for treatment of ECLSS and PMMS waste streams Process Material Management Systems [SAE PAPER 921274] p 301 A93-41443 Post-treatment of reclaimed waste water based on an electrochemical advanced oxidation process	solutions SAE PAPER 921400 p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 LIAC - A closed ecosystem research facility Life In A Can p 347 A93-42129 An integrated human/plant metabolic mass balance model p 347 A93-42130 Space habitat environmental health - A systems issue p 347 A93-42151 Implementation of biological elements in life support systems - Rationale and development milestones p 390 A93-49302 Life support systems LAS PAPER 91-320 P 409 A93-54308	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Selenia: A habitability study for the development of a third generation lunar base p 352 N93-29748 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 377) [NASA-SP-7011(377)] p 361 N93-31924 Microbiological test results of the environmental control and life support systems vapors compression distillation subsystem recycle tank components following various pretreatment protocols [NASA-CR-192570] p 359 N93-32354 Optimization of 15 parameters influencing the long-term survival of bacteria in aquatic systems [NASA-CR-192571] p 359 N93-32365 LIFEBOATS
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results Object-oriented Controlled Ecological Life Support System Analysis and Modeling [SAE PAPER 921241] p 298 A93-41413 System integration and verification approach for the environmental control system of the Columbus Attached Pressurised Module [SAE PAPER 921261] p 299 A93-41431 The analytical control program for the NASA Space Station Freedom Environmental Control and Life Support System (ECLSS) Water Recovery Test [SAE PAPER 921269] p 300 A93-41439 An assessment of waste processing/resource recovery technologies for lunar/Mars life applications [SAE PAPER 921271] p 300 A93-41441 Catalytic oxidation for treatment of ECLSS and PMMS waste streams Process Material Management Systems [SAE PAPER 921274] p 301 A93-41443 Post-treatment of reclaimed waste water based on an electrochemical advanced oxidation process [SAE PAPER 921275] p 301 A93-41444	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 LIAC - A closed ecosystem research facility Life In A Can A can p 347 A93-42129 An integrated human/plant metabolic mass balance model p 347 A93-42130 Space habitat environmental health - A systems issue p 347 A93-42151 Implementation of biological elements in life support systems - Rationale and development milestones p 390 A93-49302 Life support systems [AAS PAPER 91-320] p 409 A93-54308 Remote medical systems for the human exploration of space	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Selenia: A habitability study for the development of a third generation lunar base p 352 N93-29748 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 377) [NASA-SP-7011(377)] p 361 N93-31924 Microbiological test results of the environmental control and life support systems vapors compression distillation subsystem recycle tank components following various pretreatment protocols [NASA-CR-192570] p 359 N93-32354 Optimization of 15 parameters influencing the long-term survival of bacteria in aquatic systems [NASA-CR-192571] p 359 N93-32365 LIFEBOATS The application of Hybrid 3 dummy to the impact
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 LIAC - A closed ecosystem research facility Life In A Can A Can p 347 A93-42129 An integrated human/plant metabolic mass balance model p 347 A93-42130 Space habitat environmental health - A systems issue p 347 A93-42151 Implementation of biological elements in life support systems - Rationale and development milestones p 390 A93-49302 Life support systems [AAS PAPER 91-320] p 409 A93-54308 Remote medical systems for the human exploration of space [AAS PAPER 91-321] p 401 A93-54309 Submarine Advanced Integrated Life Support system (SAILS) program	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Selenia: A habitability study for the development of a third generation lunar base p 352 N93-29748 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 377) [NASA-SP-7011(377)] p 361 N93-31924 Microbiological test results of the environmental control and life support systems vapors compression distillation subsystem recycle tank components following various pretreatment protocols [NASA-CR-192570] p 359 N93-32354 Optimization of 15 parameters influencing the long-term survival of bacteria in aquatic systems [NASA-CR-192571] p 359 N93-32365 LIFEBOATS The application of Hybrid 3 dummy to the impact assessment of a free-fall lifeboat p 143 N93-19671
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 LIAC - A closed ecosystem research facility Life In A Can p 347 A93-42129 An integrated human/plant metabolic mass balance model p 347 A93-42130 Space habitat environmental health - A systems issue p 347 A93-42151 Implementation of biological elements in life support systems - Rationale and development milestones p 390 A93-49302 Life support systems [AAS PAPER 91-320] p 409 A93-54308 Remote medical systems for the human exploration of space [AAS PAPER 91-321] p 401 A93-54309 Submarine Advanced Integrated Life Support system (SAILS) program [AD-A253564] p 32 N93-11812	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Selenia: A habitability study for the development of a third generation lunar base p 352 N93-29748 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 377) [NASA-SP-7011(377)] p 361 N93-31924 Microbiological test results of the environmental control and life support systems vapors compression distillation subsystem recycle tank components following various pretreatment protocols [NASA-CR-192570] p 359 N93-32354 Optimization of 15 parameters influencing the long-term survival of bacteria in aquatic systems [NASA-CR-192571] p 359 N93-32365 LIFEBOATS The application of Hybrid 3 dummy to the impact assessment of a free-fall lifeboat p 143 N93-19671 LIGANDS
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results Object-oriented Controlled Ecological Life Support System Analysis and Modeling [SAE PAPER 921241] p 298 A93-41413 System integration and verification approach for the environmental control system of the Columbus Attached Pressurised Module [SAE PAPER 921261] p 299 A93-41431 The analytical control program for the NASA Space Station Freedom Environmental Control and Life Support System (ECLSS) Water Recovery Test [SAE PAPER 921269] p 300 A93-41439 An assessment of waste processing/resource recovery technologies for lunar/Mars life applications [SAE PAPER 921271] p 300 A93-41441 Catalytic oxidation for treatment of ECLSS and PMMS waste streams Process Material Management Systems [SAE PAPER 921274] p 301 A93-41443 Post-treatment of reclaimed waste water based on an electrochemical advanced oxidation process [SAE PAPER 921275] p 301 A93-41444 A hybrid regenerative water recovery system for lunar/Mars life support applications [SAE PAPER 921276] p 301 A93-41445	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 LIAC - A closed ecosystem research facility Life In A Can p 347 A93-42129 An integrated human/plant metabolic mass balance model p 347 A93-42130 Space habitat environmental health - A systems issue p 347 A93-42151 Implementation of biological elements in life support systems - Rationale and development milestones p 390 A93-49302 Life support systems [AAS PAPER 91-320] p 409 A93-54308 Remote medical systems for the human exploration of space [AAS PAPER 91-321] p 401 A93-54309 Submarine Advanced Integrated Life Support system (SAILS) program [AD-A253564] p 32 N93-11812 ECLSS evolution: Advanced instrumentation interface	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Selenia: A habitability study for the development of a third generation lunar base p 352 N93-29748 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 377) [NASA-SP-7011(377)] p 361 N93-31924 Microbiological test results of the environmental control and life support systems vapors compression distillation subsystem recycle tank components following various pretreatment protocols [NASA-CR-192570] p 359 N93-32354 Optimization of 15 parameters influencing the long-term survival of bacteria in aquatic systems [NASA-CR-192571] p 359 N93-32365 LIFEBOATS The application of Hybrid 3 dummy to the impact assessment of a free-fall lifeboat p 143 N93-19671 LIGANDS In vitro selection of optimal DNA substrates for T4 RNA
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results Object-oriented Controlled Ecological Life Support System Analysis and Modeling [SAE PAPER 921241] p 298 A93-41413 System integration and verification approach for the environmental control system of the Columbus Attached Pressurised Module [SAE PAPER 921261] p 299 A93-41431 The analytical control program for the NASA Space Station Freedom Environmental Control and Life Support System (ECLSS) Water Recovery Test [SAE PAPER 921269] p 300 A93-41439 An assessment of waste processing/resource recovery technologies for lumar/Mars life applications [SAE PAPER 921271] p 300 A93-41441 Catalytic oxidation for treatment of ECLSS and PMMS waste streams Process Material Management Systems [SAE PAPER 921274] p 301 A93-41443 Post-treatment of reclaimed waste water based on an electrochemical advanced oxidation process [SAE PAPER 921275] p 301 A93-41444 A hybrid regenerative water recovery system for lunar/Mars life support applications [SAE PAPER 921276] p 301 A93-41445 Environmental control of the Mini Pressurized Logistic	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 LIAC - A closed ecosystem research facility Life In A Can p 347 A93-42129 An integrated human/plant metabolic mass balance model p 347 A93-42130 Space habitat environmental health - A systems issue p 347 A93-42151 Implementation of biological elements in life support systems - Rationale and development milestones p 390 A93-49302 Life support systems [AAS PAPER 91-320] p 409 A93-54308 Remote medical systems for the human exploration of space [AAS PAPER 91-321] p 401 A93-54309 Submarine Advanced Integrated Life Support system (SAILS) program [AD-A253564] p 32 N93-11812 ECLSS evolution: Advanced instrumentation interface requirements. Volume 3: Appendix C	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Selenia: A habitability study for the development of a third generation lunar base p 352 N93-29748 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 377) [NASA-SP-7011(377)] p 361 N93-31924 Microbiological test results of the environmental control and life support systems vapors compression distillation subsystem recycle tank components following various pretreatment protocols [NASA-CR-192570] p 359 N93-32354 Optimization of 15 parameters influencing the long-term survival of bacteria in aquatic systems [NASA-CR-192571] p 359 N93-32365 LIFEBOATS The application of Hybrid 3 dummy to the impact assessment of a free-fall lifeboat p 143 N93-19671 LIGANDS In vitro selection of optimal DNA substrates for T4 RNA ligase p 329 A93-44939
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 LIAC - A closed ecosystem research facility Life In A Can p 347 A93-42129 An integrated human/plant metabolic mass balance model p 347 A93-42130 Space habitat environmental health - A systems issue p 347 A93-42151 Implementation of biological elements in life support systems - Rationale and development milestones p 390 A93-49302 Life support systems [AAS PAPER 91-320] p 409 A93-54308 Remote medical systems for the human exploration of space [AAS PAPER 91-321] p 401 A93-54309 Submarine Advanced Integrated Life Support system (SAILS) program [AD-A253364] p 32 N93-11812 ECLSS evolution: Advanced instrumentation interface requirements. Volume 3: Appendix C [NASA-CR-184367] p 64 N93-12990	frontier Assessment of the state of the art in life support Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Selenia: A habitability study for the development of a third generation lunar base p 352 N93-29748 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 377) [NASA-SP-7011(377)] p 361 N93-31924 Microbiological test results of the environmental control and life support systems vapors compression distillation subsystem recycle tank components following various pretreatment protocols [NASA-CR-192570] p 359 N93-32354 Optimization of 15 parameters influencing the long-term survival of bacteria in aquatic systems [NASA-CR-192571] p 359 N93-32365 LIFEBOATS The application of Hybrid 3 dummy to the impact assessment of a free-fall lifeboat p 143 N93-19671 LIGANDS In vitro selection of optimal DNA substrates for T4 RNA ligase p 329 A93-44939 LIGHT (VISIBLE RADIATION)
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results Object-oriented Controlled Ecological Life Support System Analysis and Modeling [SAE PAPER 921241] p 298 A93-41413 System integration and verification approach for the environmental control system of the Columbus Attached Pressurised Module [SAE PAPER 921261] p 299 A93-41431 The analytical control program for the NASA Space Station Freedom Environmental Control and Life Support System (ECLSS) Water Recovery Test [SAE PAPER 921269] p 300 A93-41439 An assessment of waste processing/resource recovery technologies for lunar/Mars life applications [SAE PAPER 921271] p 300 A93-41441 Catalytic oxidation for treatment of ECLSS and PMMS waste streams Process Material Management Systems [SAE PAPER 921274] p 301 A93-41443 Post-treatment of reclaimed waste water based on an electrochemical advanced oxidation process [SAE PAPER 921275] p 301 A93-41444 A hybrid regenerative water recovery system for lunar/Mars life support applications [SAE PAPER 921276] p 301 A93-41445 Environmental control of the Mini Pressurized Logistic Module ISAE PAPER 921281] p 302 A93-41449	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 LIAC - A closed ecosystem research facility Life In A Can p 347 A93-42128 An integrated human/plant metabolic mass balance model p 347 A93-42130 Space habitat environmental health - A systems issue p 347 A93-42151 Implementation of biological elements in life support systems - Rationale and development milestones p 390 A93-49302 Life support systems [AAS PAPER 91-320] p 409 A93-54308 Remote medical systems for the human exploration of space [AAS PAPER 91-321] p 401 A93-54309 Submarine Advanced Integrated Life Support system (SAILS) program [AD-A253564] p 32 N93-11812 ECLSS evolution: Advanced instrumentation interface requirements. Volume 3: Appendix C [NASA-CR-184367] p 64 N93-12990 The environmental control and life-support system for	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Selenia: A habitability study for the development of a third generation lunar base p 352 N93-29748 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 377) [NASA-SP-7011(377)] p 361 N93-31924 Microbiological test results of the environmental control and life support systems vapors compression distillation subsystem recycle tank components following various pretreatment protocols [NASA-CR-192570] p 359 N93-32354 Optimization of 15 parameters influencing the long-term survival of bacteria in aquatic systems [NASA-CR-192571] p 359 N93-32365 LIFEBOATS The application of Hybrid 3 dummy to the impact assessment of a free-fall lifeboat p 143 N93-19671 LIGANDS In vitro selection of optimal DNA substrates for T4 RNA ligase p 329 A93-44939 LIGHT (VISIBLE RADIATION) Research on sleep, circadian rhythms and aging -
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results Object-oriented Controlled Ecological Life Support System Analysis and Modeling [SAE PAPER 921241] p 298 A93-41413 System integration and verification approach for the environmental control system of the Columbus Attached Pressurised Module [SAE PAPER 921261] p 299 A93-41431 The analytical control program for the NASA Space Station Freedom Environmental Control and Life Support System (ECLSS) Water Recovery Test [SAE PAPER 921269] p 300 A93-41439 An assessment of waste processing/resource recovery technologies for lunar/Mars life applications [SAE PAPER 921271] p 300 A93-41441 Catalytic oxidation for treatment of ECLSS and PMMS waste streams Process Material Management Systems [SAE PAPER 921274] p 301 A93-41443 Post-treatment of reclaimed waste water based on an electrochemical advanced oxidation process [SAE PAPER 921275] p 301 A93-41444 A hybrid regenerative water recovery system for lunar/Mars life support applications [SAE PAPER 921276] p 301 A93-41445 Environmental control of the Mini Pressurized Logistic Module [SAE PAPER 921281] p 302 A93-41449 Hazard and risk assessment for surface components	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 LIAC - A closed ecosystem research facility Life In A Can p 347 A93-42129 An integrated human/plant metabolic mass balance model p 347 A93-42130 Space habitat environmental health - A systems issue p 347 A93-42151 Implementation of biological elements in life support systems - Rationale and development milestones p 390 A93-49302 Life support systems [AAS PAPER 91-320] p 409 A93-54308 Remote medical systems for the human exploration of space [AAS PAPER 91-321] p 401 A93-54309 Submarine Advanced Integrated Life Support system (SAILS) program [AD-A253564] p 32 N93-11812 ECLSS evolution: Advanced instrumentation interface requirements. Volume 3: Appendix C [NASA-CR-184367] p 64 N93-12990 The environmental control and life-support system for a lunar base: What drives its design p 66 N93-13991	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Selenia: A habitability study for the development of a third generation lunar base p 352 N93-29748 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 377) [NASA-SP-7011(377)] p 361 N93-31924 Microbiological test results of the environmental control and life support systems vapors compression distillation subsystem recycle tank components following various pretreatment protocols [NASA-CR-192570] p 359 N93-32354 Optimization of 15 parameters influencing the long-term survival of bacteria in aquatic systems [NASA-CR-192571] p 359 N93-32365 LIFEBOATS The application of Hybrid 3 dummy to the impact assessment of a free-fall lifeboat p 143 N93-19671 LIGANDS In vitro selection of optimal DNA substrates for T4 RNA ligase p 329 A93-44939 LIGHT (VISIBLE RADIATION) Research on sleep, circadian rhythms and aging - Applications to manned spaceflight p 94 A93-20658
[SAE PAPER 921239] p 297 A93-41412 OCAM - A CELSS modeling tool: Description and results Object-oriented Controlled Ecological Life Support System Analysis and Modeling [SAE PAPER 921241] p 298 A93-41413 System integration and verification approach for the environmental control system of the Columbus Attached Pressurised Module [SAE PAPER 921261] p 299 A93-41431 The analytical control program for the NASA Space Station Freedom Environmental Control and Life Support System (ECLSS) Water Recovery Test [SAE PAPER 921269] p 300 A93-41439 An assessment of waste processing/resource recovery technologies for lunar/Mars life applications [SAE PAPER 921271] p 300 A93-41441 Catalytic oxidation for treatment of ECLSS and PMMS waste streams Process Material Management Systems [SAE PAPER 921274] p 301 A93-41443 Post-treatment of reclaimed waste water based on an electrochemical advanced oxidation process [SAE PAPER 921275] p 301 A93-41444 A hybrid regenerative water recovery system for lunar/Mars life support applications [SAE PAPER 921276] p 301 A93-41445 Environmental control of the Mini Pressurized Logistic Module ISAE PAPER 921281] p 302 A93-41449	solutions [SAE PAPER 921400] p 309 A93-41555 Space Station and lunar/Mars life support research p 346 A93-42122 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Artificial gravity augmentation on the moon and Mars p 346 A93-42127 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 LIAC - A closed ecosystem research facility Life In A Can p 347 A93-42128 An integrated human/plant metabolic mass balance model p 347 A93-42130 Space habitat environmental health - A systems issue p 347 A93-42151 Implementation of biological elements in life support systems - Rationale and development milestones p 390 A93-49302 Life support systems [AAS PAPER 91-320] p 409 A93-54308 Remote medical systems for the human exploration of space [AAS PAPER 91-321] p 401 A93-54309 Submarine Advanced Integrated Life Support system (SAILS) program [AD-A253564] p 32 N93-11812 ECLSS evolution: Advanced instrumentation interface requirements. Volume 3: Appendix C [NASA-CR-184367] p 64 N93-12990 The environmental control and life-support system for	frontier p 315 N93-27967 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 Manned lunar surface site p 316 N93-28033 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Selenia: A habitability study for the development of a third generation lunar base p 352 N93-29748 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 377) [NASA-SP-7011(377)] p 361 N93-31924 Microbiological test results of the environmental control and life support systems vapors compression distillation subsystem recycle tank components following various pretreatment protocols [NASA-CR-192570] p 359 N93-32354 Optimization of 15 parameters influencing the long-term survival of bacteria in aquatic systems [NASA-CR-192571] p 359 N93-32365 LIFEBOATS The application of Hybrid 3 dummy to the impact assessment of a free-fall lifeboat p 143 N93-19671 LIGANDS In vitro selection of optimal DNA substrates for T4 RNA ligase p 329 A93-44939 LIGHT (VISIBLE RADIATION) Research on sleep, circadian rhythms and aging

p 330 N93-29703

p 1 A93-10636

p 1 A93-11198

p 57 A93-17431

p 84 A93-17535

p 90 A93-18410

p 90 A93-18411

p 119 A93-25652

n 170 A93-28758

p 213 A93-30771

p 214 A93-30773

n 249 A93-35231

p 290 A93-41313

p 294 A93-41344

p 287 A93-41369

p 295 A93-41373

p 298 A93-41419

p 300 A93-41441

p 305 A93-41505

p 306 A93-41510

p 307 A93-41517

p 307 A93-41519

p 345 A93-42114

p 346 A93-42122

p 347 A93-42149

p 347 A93-42151

A93-42658

p 339

A93-41407

monitoring

p 297

microbial.

long-duration

systems for

SUBJECT IN
LIGHT BEAMS A fiber optic
Studies of a armor [AD-A255128] A fiber optic
LIGHT SOURCES Modification lettuce by HPS
Bright light d NASA-CASE-N LIGHT VALVES The active-m Operational exp
LIGHTING EQUII Integration of imaging system [AD-A254826] LIGHTNING An efficient li
LIMBS (ANATON Magnetic Re muscles durin model Finite elemen
LINE OF SIGHT Visual field i teleoperated he
LINEAR ENERG' Accelerated Comparisons b iron ions (19 keV/microns) Human expo
Target fragm NASA-TM-440 LINEAR QUADR. Centralized, of a flexible manip
On the contr feedback linear LINGUISTICS Ontology of r of temporal exp [REPT-92-018] Interpretation [AD-A259608] Fuzzy neural diagnosis Quantification
Connectionis Investigations of [AD-A265450] LIPID METABOL Oxygen ten peroxidation i

Peroxidative oxidation of lipids and chromosome

aberrations in mice after repeated exposures to a

helium-oxygen respiration mixture under hyperbaric

Effect of cytoskeletal reagents on stretch activated ion

Blood lipids in aircrew recruits and in RAF aviators

conditions

[AD-A261089]

p 243 A93-35672

p 245 N93-25764

p 362 N93-32251

DFX probe for the detection of cataracts physical training in Spanish Air Force fighter pilots p 254 N93-25593 laser/nuclear thermal hardened body aviators LIPOPROTEINS p 34 N93-12423 probe for the detection of cataracts p 254 N93-25593 military pilots of the German Federal Armed Forces of yield and chlorophyll content in leaf radiation and nitrogen treatments LIPS (ANATOMY) p 328 A93-44880 elivery system human lip MFS-28723-1| LIQUEFACTION p 96 N93-17058 Hybrid oxygen system IAD-A2624171 atrix LC head-down display (AM-LCD): LIQUID CHROMATOGRAPHY perience and growth potential p 148 N93-19782 accountability MENT [NASA-CR-184438] exterior lighting systems and night vision LIQUID COOLING p.63 N93-12732 ightning energy source on the early earth Lightweight passive microclimate cooling device IAD-A2622621 p 73 A93-17823 sonance Imaging evaluation of lower limb with explosive ordnance disposal suits IAD-A2628621 ng bed rest - A microgravity simulation p 212 A93-30280 LIQUID CRYSTALS nt analysis of a composite artificial ankle dynamic lighting conditions p 174 N93-22189 Low-cost color LCD helmet display nformation in nap-of-the-Earth flight by elmet-mounted displays p 311 N93-27177 quality model (TRANSFER (LET) virtual-reality systems heavy particles and the lens. VIII etween the effects of acute low doses of Operational experience and growth potential 0 keV/microns) and argon ions (88 p 216 A93-32784 Low-cost helmet-mounted displays sure to galactic cosmic rays in space AD-A262616] p 410 A93-54887 LIQUID FLOW entation in radiobiology 180 p 124 N93-18381 ATIC REGULATOR microgravity liquid flow systems [SAE PAPER 921162] decentralized, and independent control of LIQUID OXYGEN pulator on a flexible base Hybrid oxygen system p 231 A93-31517 ol of a class of flexible manipulators using IAD-A2624171 LIQUID-GAS MIXTURES p 231 A93-31533 rization approach nind, subjective ontology, and the example present and future pressions SAE PAPER 921160 | p 26 N93-11212 LIVER as abduction experimental animals after infrasonic exposure p 225 N93-24227 network methodology applied to medical LOAD DISTRIBUTION (FORCES) p 334 N93-29546 of human responses p 340 N93-29564 zero-a |SAE PAPER 921155| models and linguistic theory: Design requirements for force of stress systems in language p 364 N93-32064 controllers LOADS (FORCES) sion and water-soluble products of lipid n blood of volunteers in hypobaric p 169 A93-28751 hyperoxial INASA-TP-32861 Lipid peroxidation and the antioxidant defense system in rats after a 13-day flight on the Cosmos-1887 hiosatellite p 239 A93-35210 vibration LOCKING Mechanisms of the antihypoxic effect of taurine p 325 A93-43073 Prosthetic elbow joint Changes in the phospholipid and cholesterol content NASA-CASE-MFS-28707-11 LOCOMOTION of rat tissues during adaptation to high altitude at different environmental temperatures p 358 A93-47100 Reduction of postprandial lipemia after acute exposure issues pertaining to human locomotion to high altitude hypoxia p 382 A93-49567 Interdisciplinary research and training program in the plant sciences durina zero G NASA-TP-33051 [DE92-0159191 p 5 N93-10835 Perception/action: An holistic approach Lipodystrophies in the French military flight crew p 362 N93-32249 1AD-A2595971 Melatonin, the pineal gland, and circadian rhythms LIPIDS The effects of growth temperature on the methyl sterol I AD-A2640991 LOCOMOTIVES and phospholipid fatty acid composition of Methylococcus capsulatus (Bath) p 153 A93-28691

Objective improvements obtained by control of diet and Continued results of the seeds in space experiment p 369 N93-32258 LONG DURATION SPACE FLIGHT The influence of dietary counseling and cardiac The space life sciences strategy for the 21st century catheterization on lipid profiles in American military p 369 N93-32259 To the stars with the cytoskeleton? Adaptation of skeletal muscles and physical work Results and management of pathological lipoprotein capacity in a weightless environment p 38 A93-15527 concentrations and other cardiovascular risk factors in Crew factors --- and their psychological problems in long term space flight p 363 N93-32254 Metabolic changes observed in astronauts Direct measurement of capillary blood pressure in the Approaches to solving the problem of decompression p 279 A93-40550 safety of cosmonauts on their flights to Mars Problems of medical support during extravehicular p 317 N93-28464 activity during flights to Mars The rhythm of heart activity and arrhythmia in long-term Methods development for total organic carbon space flights The clinical chemistry and immunology of long-duration pace missions p 169 A93-28754 p 40 N93-12949 space missions Medical-care The optimum design of personal liquid cooling system nissions p 169 A93-28755
An assessment of the deflecting effect on human missions p 60 A93-14314 movement due to the Coriolis inertial forces in a space p 317 N93-28112 vehicle Evaluation of personal cooling systems in conjunction A review of muscle atrophy in microgravity and during prolonged bed rest p 350 N93-29471 The effects of prolonged weightlessness and reduced gravity environments on human survival Visibility of transmissive liquid crystal displays under p 103 A93-19990 The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 p 228 A93-30062 Some features characterizing the supply of astronauts Quantitative Helmet Mounted Display system image with vitamins C, B1, B2, and B6 during nourishment from p 229 A93-30068 canned-food rations on long-term space flights Studies of the field-of-view resolution tradeoff in p 232 A93-33443 Recycling and source reduction for long duration space The active-matrix LC head-down display (AM-LCD): (SAE PAPER 921121) p 148 N93-19782 Development of membrane gas removal technology for microgravity liquid flow systems p 317 N93-28479 (SAE PAPER 921162) The psychological effects of isolation on a space station Development of membrane gas removal technology for A simulation study [SAE PAPER 921191] p 294 A93-41344 Crop interactions in polyculture and their implications for CELSS design [SAE PAPER 921197] p 317 N93-28464 Instrumentation decontamination or biocide system effectiveness Zero gravity phase separator technologies - Past, [SAE PAPER 921233] Space Station Freedom food management p 293 A93-41342 ISAE PAPER 921248| An assessment of waste processing/resource recovery Morphological analysis of the hepatic structures in technologies for lunar/Mars life applications [SAE PAPER 921271] p 240 A93-35240 Test of the Shuttle Extended Duration Orbiter (EDO) Waste Collection Subsystem (WCS) Pilot investigation - Nominal crew induced forces in [SAE PAPER 921346] Water reclamation technology development for future long range missions reflecting master p 139 N93-18035 [SAE PAPER 921351] NASA Specialized Center for Research and Training (NSCORT) in space environmental health A comparison of hand grasp breakaway strengths and bare-handed grip strengths of the astronauts, SML 3 test ISAE PAPER 9213581 Contaminant distribution and accumulation in water subjects, and the subjects from the general population recycle systems |SAE PAPER 9213601 p 96 N93-16619 Helmeted head and neck dynamics under whole-body An operational evaluation process for long-duration p 264 N93-25531 mission habitats in space Space Station and lunar/Mars life support research p 354 N93-30566 A systems approach to water recycling research Simulating reduced gravity - A review of biomechanical Space habitat environmental health - A systems issue p 289 A93-41175 The psychological challenge of space Two techniques for measuring locomotion impact forces p 217 N93-23410

Implementation of biological elements in life support systems - Rationale and development milestones p 390 A93-49302 p 235 N93-24067 Depth-dose equivalent relationship for cosmic rays at p 391 A93-49564 various solar minima p 337 N93-31061 Main medical results of extended flights on Space Station Mir in 1986-1990 p 386 A93-52401 Engineman stress and fatigue: Pilot tests Medical concerns for exploration-class missions p 351 N93-29675 [PB93-175008] p 386 A93-52409 LOGIC DESIGN Life support systems p 360 N93-31454 [AAS PAPER 91-320] Hyperbaric treatment p 409 A93-54308 LOGISTICS Aerospace medicine and biology: Α continuing The environmental control and life-support system for bibliography with indexes (supplement 366) a lunar base: What drives its design p 66 N93-13991 (NASA-SP-7011(366)) p 12 LONG DURATION EXPOSURE FACILITY Aerospace medicine and biology: Α continuing bibliography with indexes (supplement 367) Final results of space exposed experiment developed [NASA-SP-7011(367)] for students p 329 N93-29702 p 12 N93-10080 **LONG TERM EFFECTS** SUBJECT INDEX

p 217 N93-22630 Crew health Effect of aerobic capacity on Lower Body Negative The environmental control and life-support system for JPRS report: Science and technology. Central Eurasia: p 66 N93-13991 Pressure (LBNP) tolerance in females a lunar base: What drives its design Life sciences p 66 N93-13992 [NASA-TP-3298] Life systems for a lunar base p 128 N93-20318 JPRS-ULS-92-0221 p 253 N93-25407 Lunar base CELSS: A bioregenerative approach Respiratory response to varying degrees of tilt and lower The application of integrated knowledge-based systems p 67 N93-13993 body negative pressure p 173 N93-21114 for the Biomedical Risk Assessment Intelligent Network Crop growth and associated life support for a lunar Cardiovascular stress test with non-invasive p 258 N93-25595 p 221 N93-24399 p 67 N93-13994 techniques Analysis of the lettuce data from the variable pressure Scenarios for optimizing potato productivity in a lunar MAC to VAX connectivity: Heartrate spectral analysis growth chamber at NASA Johnson Space Center: A p 67 N93-13997 system p 254 N93-25594 three-stage nested design model p 245 N93-26069 LUMINAIRES Potential of derived lunar volatiles for life support p 67 N93-13998 on human acceleration tolerance after Discomfort glare from high-intensity discharge long-duration space flights lunar base water p 67 N93-13999 Technology development for headlamps: Effects of context and experience INASA-TM-1047531 p 334 N93-29651 [PB93-174720] p 336 N93-30659 recycling LONG TERM EFFECTS Conceptual design of a lunar base thermal control LUMINANCE The Biological Flight Research Facility p 68 N93-14003 The effects of pyridostigmine bromide on visual system p 239 A93-34581 The real world and lunar base activation scenarios p 87 A93-18034 performance LOSSES p 68 N93-14014 Chromaticity and luminance as coding dimensions in Analysis of visual loss from retinal lesions p 103 A93-19989 The lunar community church: Contributions to lunar living visual search p 336 N93-30494 I AD-A264692 | Effects of display luminance on the recognition of color and to evolution of ethical and spiritual thinking LOUDNESS o 57 N93-14020 symbols on similar color backgrounds Neuromagnetic investigation of cortical regions Life support and self-sufficiency in space communities p 189 A93-27191 underlying short-term memory p 105 N93-16866 The effects of luminance boundaries on color [AD-A261445] p 261 N93-26521 Inflatable habitation for the lunar base perception p 106 N93-17442 LOW ALTITUDE p 22 N93-11841 1AD-A2507051 Multidimensional scaling analysis of terrain features Preliminary design study of lunar housing Effects of spatial luminance nonuniformities on p 106 N93-17443 relevant for simulating low-altitude flight isual-task performance and subjective uniformity configurations p 188 Prefabricated foldable lunar base modular systems for A93-27186 p 58 N93-14416 LAD-A2559891 p 106 N93-17444 Flight-path estimation in passive low-altitude flight by habitats, offices, and laboratories LUMINOUS INTENSITY visual cues p 223 A93-32004 Concrete lunar base investigation p 107 N93-17445 Stimulation of lettuce productivity by manipulation of The influence of military low-attitude flight noise on the Vertical regolith shield wall construction for lunar base p 327 A93-44879 Evolving concepts of lunar architecture: The potential of subselene development

Lunar subsurface architecture: The potential p 107 N93-17447 diurnal temperature and light inner ear of the guinea pig. I - Hearing threshold LUNAR BASED EQUIPMENT measurements p 377 A93-49555 Possible biomedical applications and limitations of a Perceptual dimensions of visual scenes relevant for variable-force centrifuge on the lunar surface: A research Lunar subsurface architecture enhanced by artificial simulating low-altitude flight p 83 N93-17458 tool and an enabling resource [AD-A254645] p 57 N93-12662 Conceptual study on manned lunar surface site biosphere concepts p 107 N93-17448 LOW FREQUENCIES Possible biomedical applications and limitations of a p 316 N93-28029 Design of a vibration isolation system for a cycle variable-force centrifuge on the lunar surface: A research Conceptual study of manned lunar surface site p 83 N93-17458 ergometer to be used onboard the Space Shuttle p 316 N93-28031 tool and an enabling resource NASA-CR-192021 p 138 N93-17970 Conceptual design of a fleet of autonomous regolith **LUNAR BASES** Health effects of low-frequency electric and magnetic throwing devices for radiation shielding of lunar habitats A lunar-based chemical analysis laboratory p 39 A93-17426 INASA-CR-1920301 fields |ISBN 0-937194-25-5| p 139 N93-18018 DE93-005675 | Preliminary design of a radiator shading device for a p 127 N93-19838 Recommended radiobiological studies for a LOW PRESSURE Lunar-Based Chemical/Biological/Medical Analysis lunar outpost Growing wheat to maturity in reduced gas pressures [NASA-CR-193245] p 277 N93-29216 [NASA-CR-192016] p 139 N93-18019 p 39 A93-17429 Laboratory (LBCAL) Conceptual design of a thermal control system for an Operational medicine on the lunar base LOW TEMPERATURE p 48 A93-17430 inflatable lunar habitat module Effectiveness of NASA 1032 and 1035 and Air Force [NASA-CR-192014] p 140 N93-18113 Controlled Ecological Life Support System - CELSS Oxygen production on the Lunar materials processing ontier p 315 N93-27967 1030 and 1034 units in protection against cold water p 62 A93-17432 hypothermia Chemical and toxicological trontie IAD-A2551201 SPE water electrolyzers in support of the p 34 N93-12291 environmental contaminants in the Lunar-Chemical p 315 N93-27977 An assessment of peripheral nerve damage in the rat p 62 A93-17433 outpost Analysis Laboratory following non-freezing cold exposure: An electrophysiological and histopathological examination Assessment of the state of the art in life support Exobiology science objectives at a lunar base environmental control for SEI p 315 N93-27978 p 71 A93-17435 p 331 N93-30818 AD-A2642931 Dust protection for environmental control and life support Chronobiology in a moon-based chemical analysis and LOW TEMPERATURE ENVIRONMENTS physiologic monitoring laboratory p 48 A93-17439 systems in the lunar environment p 315 N93-27979 Detection of genetic effects of excess near-ultraviolet Investigation of the character of changes in the 'central' Lunar base thermal management/power p 315 N93-27985 temperature of the body in cold environment, using a rabbit-body thermoregulation model p 112 A93-25651 analysis and design irradiation under exobiology conditions p 39 A93-17446 Conceptual study on manned lunar surface site LOWER BODY NEGATIVE PRESSURE p 316 N93-28029 Rationale for a hyperbaric treatment capability at a Lunar The responses of cardiovascular during head-up tilt plus p 213 A93-30286 Conceptual study of manned lunar surface site Station p 316 N93-28031 lower body negative pressure p 9 A93-11690 Human factor considerations for the First Lunar Application of system identification to research on Outpost Manned lunar surface site: Conceptual study on cardiovascular regulative function p 3 A93-13544 [AIAA PAPER 93-1014] pressurized lunar surface operation rover p 223 A93-30928 p 46 A93-15530 p 316 N93-28032 The cardiovascular system An assessment of waste processing/resource recovery p 316 N93-28034 unar surface experiment system Development of lower body negative pressure as a technologies for lunar/Mars life applications p 300 A93-41441 Earth to lunar CELSS evolution countermeasure for orthostatic intolerance | SAE PAPER 921271 | p 351 N93-29727 Selenia: A habitability study for the development of a p 83 A93-17529 A hybrid regenerative water recovery system for third generation lunar base p 352 N93-29748 Posture and the circulation - The age effect lunar/Mars life support applications p 93 A93-20653 p 301 A93-41445 GENESIS 2: Advanced lunar outpost [SAE PAPER 921276] Cardiovascular responses to lower body negative p 352 N93-29760 Hazard and risk assessment for surface components **LUNAR COMPOSITION** pressure in trained and untrained older men of a lunar base Controlled Ecological Life Support The Moon: Biogenic elements p 113 N93-18548 p 115 A93-21686 System Lower body negative pressure system for simulation of p 302 A93-41451 **LUNAR CONSTRUCTION EQUIPMENT** | SAE PAPER 921285| + Gz-induced physiological strain p 119 A93-25210 Cardiovascular response to lower body negative p 119 A93-25210 Lunar habitats - Places for people Conceptual design of a fleet of autonomous regolith p 344 A93-41991 throwing devices for radiation shielding of lunar habitats [NASA-CR-192030] p 139 N93-18018 pressure before, during, and after ten days head-down Lunar base requirements for human habitability p 162 A93-28681 p 345 A93-41995 **LUNAR DUST** Pulmonary responses to lower body negative pressure Space Station and lunar/Mars life support research Mitigation of dust contamination during EVA operations and fluid loading during head-down tilt bedrest p 346 A93-42122 p 345 A93-42107 on the moon and Mars p 162 A93-28682 Pressure suit requirements for moon and Mars EVA's Dust protection for environmental control and life support Carotid-cardiac baroreflex response and LBNP tolerance p 346 A93-42123 Utilization of on-site resources for Regenerative Life systems in the lunar environment p 315 N93-27979 following resistance training p 164 LUNAR ENVIRONMENT Orthostatic intolerance during a 13-day bed rest does Support Systems at a lunar outpost p 346 A93-42124 Chemical and toxicological assessment Lunar base pressure, O2 fraction, and ExtraHabitat not result from increased leg compliance environmental contaminants in the Lunar-Chemical p 280 A93-41119 p 346 A93-42125 Activity suit design Analysis Laboratory p 62 A93-17433 Effects of dynamic exercise on cardiovascular regulation p 331 A93-42126 Medical care on the moon A study to explore locomotion patterns in partial gravity during lower body negative pressure Artificial gravity augmentation on the moon and Mars p 281 A93-41168 p 346 A93-42127 ISAF PAPER 9211571 p 293 A93-41340 Arterial pulse pressure and vasopressin release in LIAC - A closed ecosystem research facility --- Life In Human locomotion and workload for simulated lunar and p 347 A93-42129 humans during lower body negative pressure A Can p 360 A93-47096 An integrated human/plant metabolic mass balance Martian environments p 394 A93-52406 p 347 A93-42130 p 33 N93-11976 Human safety in the lunar environment Hemodynamic and hormonal correlates with exposure to lower body negative pressure after 12 hours head-down p 105 N93-16867 Habitat automation p 379 A93-49220 Thermal control systems for low-temperature heat Design of a radiator shade for testing in a simulated

ejection on a lunar base

INASA-CR-1912861

lunar environment

[NASA-CR-192080]

p 108 N93-17710

p 65 N93-13717

pressure

Transcapillary fluid responses to lower body negative

p 380 A93-49292

SUBJECT INDEX **MAGNETIC RESONANCE**

n 113 N93-18548

Connectionist models and

linguistic theory:

The Moon: Biogenic elements

Conceptual design of a fleet of autonomous regolith

p 105 N93-16867

p 107 N93-17447

Evolving concepts of lunar architecture: The potential

of subselene development

throwing devices for radiation shielding of lunar habitats Lunar base thermal management/power system Investigations of stress systems in language analysis and design INASA-CR-1920781 p 108 N93-17806 p 315 N93-27985 p 364 N93-32064 Dust protection for environmental control and life support LUNGS MACROMOLECULES systems in the lunar environment The effect of the activation of the sympatho-adrenal p 315 N93-27979 Effects of a microgravity environment on the **LUNAR EXCAVATION EQUIPMENT** system on catecholamine inactivation in rat lungs crystallization of biological macromolecules Conceptual design of a fleet of autonomous regolith n 2 A93-12864 p 357 A93-45995 throwing devices for radiation shielding of lunar habitats Maximal lung ventilation and forced expiration rate under MACROPHAGES INASA-CR-1920301 p 139 N93-18018 hyperbaria p 76 A93-18297 Effects of antiorthostatic suspension and corticosterone Parameters of external breathing in an excess-pressure LUNAR EXPLORATION on macrophage and spleen cell function Exobiology science objectives at a lunar base atmosphere p 76 A93-18298 p 153 A93-28693 Gas composition in the blood of rabbits exposed to a p 71 A93-17435 Cytokine secretion by immune cells in space Consumables and wastes estimations for the First Lunar high-pressure atmosphere under conditions of spontaneous and forced ventilation p 77 A93-18301 p 153 A93-28694 Outpost **MAGNETIC ANOMALIES** p 302 ISAE PAPER 9212871 Heart and lung alterations in neonatal rats exposed to Development of K.E. Tsiolkovsky's ideas on the p 77 A93-20027 The Moon: Biogenic elements p 113 N93-18548 CO or high altitude interaction between space, nature, and man Pulmonary responses to lower body negative pressure LUNAR GRAVITATION p 90 A93-18408 Operational medicine on the lunar base and fluid loading during head-down tilt bedrest MAGNETIC DOMAINS p 48 A93-17430 p 162 A93-28682 Cardiopulmonary function during 10 days of head-down Magnetic domain state and coercivity predictions for An analysis of human performance in simulated biogenic greigite (Fe3S4) - A comparison of theory with partial-gravity environments p 347 A93-42173 p 38 A93-16481 magnetosome observations Correlation of serum alpha sub 1 antitrypsin with Bone loss and human adaptation to lunar gravity MAGNETIC EFFECTS p 51 N93-14002 cigarette smoking and pulmonary function status in Greek The effects of exposure to 50 mT ELF magnetic fields LUNAR LANDING SITES pilots, for a ten year period for 96 h on rabbit EEG A linear, time-varying simulation of the respiratory tract p 4 A93-13712 Lunar surface experiment system p 316 N93-28034 **LUNAR MINING** The human EEG correlates during many-sided peripheral p 218 N93-24009 Potential of derived lunar volatiles for life support IDE93-0045151 exposure to an alternating magnetic field The acute inhalation toxicity of pyrolysis products of p 363 A93-46966 p 67 N93-13998 **LUNAR MODULE** Investigation of effects of 60-Hz electric and magnetic p 254 N93-25629 Conceptual design of a thermal control system for an I AD-A2608741 fields on operant and social behavior and on the inflatable lunar habitat module Evaluation of NO(x)-induced toxicity neuroendocrine system of nonhuman primates, part 2 [NASA-CR-192014] p 283 N93-28122 p 140 N93-18113 [AD-A261034] IDE92-0401531 p 41 N93-13503 The chronic effects of jP-8 jet fuel exposure on the **LUNAR RADIATION** Investigation of effects of 60-Hz electric and magnetic fields on operant and social behavior and on the neuroendocrine system of nonhuman primates, part 1 Design of a radiator shade for testing in a simulated lunas IAD-A264162) p 334 N93-30153 p 108 N93-17710 [NASA-CR-192080] LYMPH DE92-0401521 p 41 N93-13520 Conceptual design of a fleet of autonomous regolith Correlation between the lymph dynamics and venous MAGNETIC FIELDS throwing devices for radiation shielding of lunar habitats [NASA-CR-192078] p 108 N93-17806 pressure during short-term antiorthostatic effects Multiple evolutionary origins of magnetotaxis in p 325 A93-43070 p 153 A93-27799 LUNAR RESOURCES Effect of an attenuated geomagnetic field on the cellular Lunar base CELSS: A bioregenerative approach Experimental research on the anti-irradiation effects of composition of the epithelial-spermogenous layer of rat p 67 N93-13993 KW-1 - Protective effect on the 5-HT content of tissues p 240 A93-35229 Potential of derived lunar volatiles for life support p 3 A93-13542 Protection of Chinese medicine and low frequency p 67 N93-13998 Clinical and diagnostic requirements - Biochemical magnetic field against suspension induced bone loss in Conceptual design of a lunar base thermal control exploration of amino acid metabolism, tRNA turnover and p 327 A93-44844 p 68 N93-14003 lymphocyte activation p 49 A93-17442 Investigation of effects of 60-Hz electric and magnetic Oxygen production on the Lunar materials processing Heterogeneity of changes in lymphoproliferative ability fields on operant and social behavior and on the with increasing age p 79 A93-20662 n 315 N93-27967 neuroendocrine system of nonhuman primates, part 2 Assessment of the state of the art in life support Cellular immunosenescence - An overview IDF92-0401531 p 41 N93-13503 environmental control for SEI p 315 N93-27978 p 80 A93-20663 Investigation of effects of 60-Hz electric and magnetic **LUNAR ROCKS** Immune response during space flight fields on operant and social behavior and on the neuroendocrine system of nonhuman primates, part 1 p 94 A93-20664 Vertical regolith shield wall construction for lunar base p 107 N93-17446 [DE92-040152] applications Influence of stress on lymphocyte subset distribution -Conceptual design of a fleet of autonomous regolith A flow cytometric study in young student pilots Neuromagnetic investigations of cortical regions p 118 A93-25203 throwing devices for radiation shielding of lunar habitats underlying short-term memory p 139 N93-18018 [NASA-CR-192030] Influence of microgravity on immune system and genetic IAD-A2557881 p 58 N93-14646 p 160 A93-26572 Oxygen production on the Lunar materials processing Cognition and the brain p 315 N93-2796 Effect of head-down tilt bedrest (10 days) on lymphocyte p 59 N93-14788 IAD-A2554831 LUNAR ROVING VEHICLES reactivity p 163 A93-28684 Investigation of effects of 60-Hz electric and magnetic Manned lunar surface site: Conceptual study on Cytokine secretion by immune cells in space fields on operant and social behavior and on the neuroendocrine system of nonhuman primates: p 153 A93-28694 pressurized lunar surface operation rover n.316 N93-28032 Variable lymphocyte responses in rats after space Neuroendocrine portion of Experiment 4 **LUNAR SHELTERS** p 154 A93-28704 I DE92-040955 I p 95 N93-16166 Inflatable habitation for the lunar base Flow cytometric analysis of lymphocyte surface markers Effects of maglev-spectrum magnetic field exposure on p 106 N93-17442 following a 1-Gy dose of gamma radiation CEM T-lymphoblastoid human cell p 281 A93-41170 Preliminary design study lunar housing differentiation Prolactin-induced mitogenesis of lymphocytes from configurations p 106 N93-17443 [DE92-041134] p 96 N93-16552 p 329 A93-44934 ovariectomized rats Health effects of low-frequency electric and magnetic Prefabricated foldable lunar base modular systems for p 14 N93-11284 habitats, offices, and laboratories Space flight and immune system IDE93-0056751 p 127 N93-19838 Concrete lunar base investigation p 107 N93-17445 Mechanisms of immune failure in burn injury Vertical regolith shield wall construction for lunar base p 15 N93-11285 Effects of 60-Hz electric and magnetic fields on operant p 107 N93-17446 Immunological parameters in current and former US Air and social behavior and on neuroendoctrine system of Evolving concepts of lunar architecture: The potential nonhuman primates p 16 N93-11295 Force personnel p 107 N93-17447 of subselene development IDE93-0076771 p 207 N93-22913 Effects of maglev-spectrum magnetic field exposure on Lunar subsurface architecture enhanced by artificial Investigation of effects of 60-Hz electric and magnetic CEM T-lymphoblastoid human cell biosphere concepts p 107 N93-17448 fields on operant and social behavior and on the differentiation Conceptual study on manned lunar surface site neuroendocrine system of nonhuman primates p 96 N93-16552 p 316 N93-28029 p 211 N93-24455 [DE93-007678] Influence of microgravity on immune system and genetic Potential human health effects associated with power **LUNAR SOIL** p 220 N93-24370 information Mitigation of dust contamination during EVA operations frequency electric and magnetic fields on the moon and Mars p 345 A93-42107 [PB93-132678] p 221 N93-24590 Potential of derived lunar volatiles for life support М Imaging regional changes in the spontaneous activity of the brain: An extension of the minimum-norm p 67 N93-13998 Oxygen production on the Lunar materials processing least-squares estimate M STARS p 260 N93-26436 p 315 N93-27967 frontie IAD-A2615931 Habitable zones around main sequence stars LUNAR SURFACE MAGNETIC LEVITATION VEHICLES p 197 A93-28376 Effects of maglev-spectrum magnetic field exposure on Exobiology science objectives at a lunar base MACHINE LEARNING p 71 A93-17435 CEM T-lymphoblastoid human cell growth and Constraints on learning in dynamic synapses LIAC - A closed ecosystem research facility differentiation p 347 A93-42129 [PREPRINT-890] p 100 N93-17026 IDE92-0411341 p 96 N93-16552 The cognitive, perceptual, and neural bases of skilled MAGNETIC RESONANCE Conceptual design of a lunar base thermal control p 68 N93-14003 Magnetic resonance imaging and electromyography as dexes of muscle function p 44 A93-14975
Magnetic Resonance Imaging evaluation of lower limb p 130 N93-17820 indexes of muscle function Human safety in the lunar environment IAD-A2582361

An accelerated training method for back propagation

p 340 N93-29610

[NASA-CASE-MSC-21625-1]

p 212 A93-30280

muscles during bed rest - A microgravity simulation

MAGNETIC STORMS SUBJECT INDEX

		0000201111021
Mapping of electrical muscle stimulation using MRI	Intelligent robotics capabilities of the teleautonomy	Operator workload predictions for the revised AH-64
p 279 A93-40549 A feasibility study of hand kinematics for EVA analysis	testbed p 184 A93-27035 Technology test results from an intelligent, free-flying	workload prediction model. Volume 2: Appendixes a through H
using magnetic resonance imaging	robot for crew and equipment retrieval in space	[AD-A254939] p 63 N93-1254
[SAE PAPER 921253] p 298 A93-41423 Functional MRI studies of human vision on a clinical	p 184 A93-27037 Automation, authority and angst - Revisited	The human-electronic crew: Is the team maturing? The 2nd Joint GAF/RAF/USAF Workshop or
imager	p 185 A93-27127	Human-Electronic Crew Teamwork
[DE92-017448] p 49 N93-12566 Neuromagnetic investigation of cortical regions	Experimental validation of the attention switching	A voyage to Mars: A challenge to collaboration between
underlying short-term memory	component of the COGNET framework p 186 A93-27141	man and machines p 70 N93-1461
[AD-A261445] p 261 N93-26521 EVA Glove Research Team	Task-analytic evaluations of Space Station Freedom	Compliant walker [NASA-CASE-GSC-13348-2] p 53 N93-1470
[NASA-CR-193014] p 313 N93-27847	workstations p 187 A93-27157	Aerospace medicine and biology: A continuing
A feasibility study of hand kinematics for EVA analysis using magnetic resonance imaging p 313 N93-27848	Pilot interaction with cockpit automation - Operational experiences with the Flight Management System	bibliography with indexes (supplement 369) [NASA-SP-7011(369)] p 53 N93-1473
MAGNETIC STORMS	p 189 A93-27455	A monitoring and control system for complex
Psychosomatic status and flying skill during geomagnetic disturbances p 257 A93-35251	Estimation of the number of operators and their efficiency in flight vehicle control p 193 A93-29696	man-machine systems: Preliminary design p 70 N93-1495
MAIN SEQUENCE STARS	Flight Telerobotic Servicer legacy	Using constraint satisfaction networks to study aircrev
Habitable zones around main sequence stars p 197 A93-28376	[AIAA PAPER 93-1157] p 231 A93-31032 Compensating lags in head-coupled displays using head	selection for advanced cockpits [AD-A258151] p 140 N93-18290
MAINTENANCE	position prediction and image deflection	Cognitive engineering models in space systems
Candidate technologies for the Integrated Health Management Program	p 231 A93-31782 Studies of the field-of-view resolution tradeoff in	[NASA-CR-192001] p 141 N93-18517 Modeling the performance of the human (pilot
[NASA-CR-192520] p 217 N93-22655	virtual-reality systems p 232 A93-33443	interaction in a synthetic flight domain: Information
MAINTENANCE TRAINING Human Factors Issues in Aircraft Maintenance and	Proposed evaluation framework for assessing operator performance with multisensor displays	theoretic approach p 141 N93-19465 Advanced Aircraft Interfaces: The Machine Side of the
Inspection. Science, technology, and management: A	p 232 A93-33444	Man-Machine Interface
program review [PB93-146975] p 234 N93-23647	The design of virtual spaces and virtual environments p 232 A93-33445	[AGARD-CP-521] p 144 N93-19757 Engineering the visibility of small features on electronic
Human Factors in Aviation Maintenance, phase 2	The role of mental models in team performance in	flight displays p 144 N93-19758
[DOT/FAA/AM-93/5] p 267 N93-26089 MALES	complex systems p 262 A93-34985 Agent-based pilot-vehicle interfaces - Concept and	Human factors problems for aircrew-aircraft interfaces Where should we focus our efforts? p 144 N93-19759
Clinical and immunological response to vaccination with	prototype p 262 A93-34986	Advanced cockpit-mission and image management
parenteral or oral vaccines in two groups of 30 recruits p 19 N93-11305	Operator vision aids for telerobotic assembly and servicing in space p 262 A93-35530	p 144 N93-19760 Aircrew acceptance of automation in the cockpit
Vascular uptake of rehydration fluids in hypohydrated	Perceptual effects of synthetic reverberation on	p 144 N93-19761
men at rest and exercise [NASA-TM-103942] p 255 N93-26133	three-dimensional audio systems p 257 A93-36583 Human factors problems for aircrew-aircraft interfaces	Time stress measurement devices for enhancement of onboard bit performance p 144 N93-19762
Field trial of caffeine on physical performance at altitude:	- Where should we focus our efforts?	Developing virtual cockpits p 145 N93-19764
An attempt to overcome the challenge [AD-A264260] p 337 N93-30894	p 264 A93-37300 Task allocation and automation in design and operation	Panoramic cockpit displays p 145 N93-19765 A new concept for helmet mounted vision
MAMMALS	of man-machine systems p 348 A93-42842	p 145 N93-19767
The role of dermorphin in the regulation of the winter hibernation processes in mammals p 38 A93-16748	Design of the man-machine interface for an automatic target cuer system p 348 A93-42843	The MOD (UK) integrated helmet technical demonstrator programme p 145 N93-19769
The role of central monoaminergic systems in arousal and selective attention	An evaluation of miniaturized aircraft keyboards	Multi-function visor p 146 N93-19770
[AD-A258500] p 122 N93-18264	p 348 A93-42844 'Liveware' survey of human systems integration (HSI)	The use of voice processing for some aspects of the pilot-vehicle-interface in an aircraft p 146 N93-19772
Neurophysiological analysis of circadian rhythm entrainment	tools p 349 A93-42847	Multimodal dialog system for future cockpits p 146 N93-19773
[AD-A264681] p 361 N93-32018	CSERIAC case studies in ergonomics information analysis for crew systems p 349 A93-42850	A systems approach to the advanced aircraft
MAMMARY GLANDS Automated system for early breast cancer detection in	Evaluation of speech technology for enhancing	man-machine interface p 146 N93-19776
mammograms p 253 N93-25568	performance of man-machine systems p 350 A93-44846	Management of avionics data in the cockpit p 147 N93-19777
MAN ENVIRONMENT INTERACTIONS Scaling issues for biodiversity protection	Distribution of functions in a man-machine control system of a certain type p 364 A93-45687	Model-based reasoning applied to cockpit warning systems p 147 N93-19778
[DE92-016689] p 6 N93-12315	system of a certain type p 364 A93-45687 Designs and development of a master-slave	The integration of advanced cockpit and systems
MAN MACHINE SYSTEMS Design of a display system for a human pilot's	teleoperated robot p 390 A93-49357 Synthetic experience - A proposed taxonomy	design p 147 N93-19779 CVA, cockpit design and development tool
supervisory tasks p 27 A93-11201	p 390 A93-49398	p 147 N93-19780
Space robotics and its man-machine interface p 27 A93-11204	Mental rotation - A key to mitigation of motion sickness in the virtual environments? p 387 A93-49404	Man-machine interface with simulated automatic target recognition systems p 147 N93-19781
Controllability of the voice command system - A	Will simulation sickness slow down the diffusion of virtual	The active-matrix LC head-down display (AM-LCD):
preliminary study p 27 A93-11287 Keeping the pilot in the loop p 29 A93-13413	environment technology? p 391 A93-49405 Interactive and cooperative sensing and control for	Operational experience and growth potential p 148 N93-19782
Advanced civil airliner cockpit research at RAE	advanced teleoperation p 391 A93-49443	Equipment, more or less ready to be used in
Bedford p 29 A93-13416 Evaluation of finger motor reaction in flyer when handling	Telerobot control mode performance assessment [AAS PAPER 92-053] p 392 A93-50593	helicopters p 148 N93-19785 Human factors engineering: A key element of
throttle and stick p 29 A93-13539 Spectral analysis of visual symbols p 30 A93-13718	Modeling strategic behavior in human-automation	instrumentation and control system design [DE93-006731] p 264 N93-25415
A study of human brain somatosensory evoked potential	interaction - Why an 'aid' can (and should) go unused p 394 A93-52502	Automation and robotics human performance
and its application to man-machine-environment system engineering - Preliminary exploration of SEP in normal	What optical cues do pilots use to initiate the landing	[NASA-CR-193049] p 267 N93-26153 Man-systems distributed system for Space Station
adult p 12 A93-13719	flare? Results of a piloted simulator experiment [AIAA PAPER 93-3561] p 406 A93-52661	Freedom p 312 N93-27788
Man-machine interface issues for space nuclear power systems p 60 A93-13907	The limits of human impact acceleration tolerance [AIAA PAPER 93-3572] p 400 A93-52692	EVA and telerobot interaction p 312 N93-27792 Man-systems integration and the man-machine
Study of overall analysis method of the	[AIAA PAPER 93-3572] p 400 A93-52692 Human-centered automation and AI - Ideas, insights,	interface p 313 N93-27795
man-machine-environment systems p 61 A93-14413 Operator/system communication - An optimizing	and issues from the Intelligent Cockpit Aids research effort p 407 A93-52764	Extravehicular activity technology discipline p 314 N93-27859
decision tool p 101 A93-19104	User evaluation of a stereoscopic display for space	Manned systems technology discipline
Fusing human and machine skills for remote robotic operations p 137 A93-24994	training applications p 408 A93-53123 Intelligent sensing and control for advanced	p 314 N93-27860
operations p 137 A93-24994 World model and its uncertainty in supervisory robot	teleoperation p 409 A93-54158	Combat Automation for Airborne Weapon Systems: Man/Machine Interface Trends and Technologies
control p 183 A93-27027	Human engineering issues for data link systems [SAE ARD 50027] p 410 A93-54874	[AGARD-CP-520] p 317 N93-28850
Emergence of telerobotic control enhancement from research in machine autonomy p 183 A93-27028	KC-135 crew reduction feasibility demonstration	Pilot decision aiding for weapon delivery: A novel approach to fire control cueing using parallel computing
Virtual display aids for teleoperation	simulation study. Volume 3: Test and evaluation [AD-A253931] p 30 N93-10713	p 317 N93-28853
p 183 A93-27029 A telerobotic virtual control system	Advanced technology for portable personal	Pilot intent and error recognition as part of a knowledge based cockpit assistant p 318 N93-28855
p 183 A93-27030	visualization [AD-A253808] p 32 N93-11783	The design and development of the new RAF standard
Interactive Scene Analysis Module - A sensor-database	From pilot's associate to satellite controller's	HUD format p 318 N93-28856
fusion system for telerobotic environments p 184 A93-27032	associate p 32 N93-11922 Super auditory localization for improved human-machine	Virtual interface applications for airborne weapons systems p 318 N93-28858
Real time proximity cues for teleoperation using model based force reflection p 184 A93-27033	interfaces	Operator and automation capability analysis: Picking the right team p 319 N93-28864
p 104 Mag-27033	[AD-A254699] p 34 N93-12229	right team p 319 N93-28864

SUBJECT INDEX MANNED SPACE FLIGHT

System automation and pilot-vehicle-interface for Telemanipulation experiment using predictive display The effects of iconic presentation on individuals unconstrained low-altitude night attack [AD-A258785] p 133 N93-18949 p 411 A93-56256 p 320 N93-28867 Principles for integrating voice I/O in a complex terface p 146 N93-19774 Initial experiments with a myoelectric-based muscle Overview of cockpit technology research and development programs for improvement of the man/machine interface: Review of the AGARD AVP interface A systems approach to the advanced aircraft IDE92-0160341 p 237 N93-25099 p 146 N93-19776 man-machine interface Modeling of a full vision system using combined Symposium held in Madrid, May 1992 Treatment of human-computer interface in a decision Visual/Haptic search for remote object identification p 320 N93-28872 upport system p 266 N93-25867 IAD-A2609771 p 237 N93-24502 Anthropometric data from launch and entry suited test IDF93-0022811 Man-machine cooperation in advanced teleoperation Measures of user-system interface effectiveness: An p 366 N93-32106 subjects for the design of a recumbent seating system p 321 N93-29044 encoding scheme and indicators for assessing the usability Interactive and cooperative sensing and control for of graphical, direct-manipulation style user interfaces [AD-A260606] p 265 N93-25840 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 377) advanced teleoperation p 366 N93-32108 TeleOperator/telePresence System (TOPS) Concept Man-systems distributed system for Space Station NASA-SP-7011(377) p 361 N93-31924 Verification Model (CVM) development Man-machine cooperation in advanced teleoperation p 312 N93-27788 p 367 N93-32112 Freedom EVA/manned systems p 312 N93-27789 p 366 N93-32106 MANNED MARS MISSIONS Evolving technologies for Space Station Freedom Integration of advanced teleoperation technologies for Human support for Mars exploration - Issues and p 366 N93-32107 p 313 N93-27794 the man-machine p 27 A93-12077 control of space robots computer-based workstations Interactive and cooperative sensing and control for Man-systems integration and Radiation exposure predictions for long-duration-stay dvanced teleoperation p 366 N93-32108 p 313 N93-27795 interface Mars missions p 28 A93-13288 MAN-COMPLITER INTERFACE Combat Automation for Airborne Weapon Systems: [AIAA PAPER 92-4584] Man/Machine Interface Trends and Technologies Design of a display system for a human pilot's Radiation exposure and dose estimates for a [AGARD-CP-520] p 317 N93-28850 nuclear-powered manned Mars sprint mission supervisory tasks p 27 A93-11201 Distance and organization in multifunction displays The design and development of the new RAF standard p 60 A93-13817 p 102 A93-19986 HUD format p 318 N93-28856 Radiation exposure predictions for short-duration stay Pictorial communication in and real MANAGEMENT Mars missions Flight physiology - Clinical considerations p 277 A93-39261 environments [AAS PAPER 92-107] [ISBN 0-74840-008-7] p 164 A93-28690 p 182 A93-26896 Human life support during interplanetary travel and Automation, authority and angst - Revisited MANAGEMENT INFORMATION SYSTEMS domicile. V - Mars expedition technology trade study for solid waste management |SAE PAPER 921119] p 185 A93-27127 Treatment of human-computer interface in a decision Experimental validation of the attention switching upport system p 290 A93-41311 p 237 N93-24502 component of the COGNET framework LDE93-0022811 An assessment of waste processing/resource recovery n 186 A93-27141 MANAGEMENT METHODS technologies for lunar/Mars life applications Complex task performance as a basis for developing The MOD (UK) integrated helmet technical demonstrate [SAE PAPER 921271] p 300 A93-41441 p 145 N93-19769 A hybrid regenerative water recovery system for cognitive engineering guidelines in adaptive automation programme Organizational politics, participation in decision-making, p 186 A93-27148 lunar/Mars life support applications and job satisfaction A systems analysis to identify human factors issues and [SAE PAPER 921276] p 301 A93-41445 IDOT/FAA/AM-92/171 n 257 N93-25203 requirements for data link p 186 A93-27153 Space Station and lunar/Mars life support research Display format and highlight validity effects on search Performance measurement systems: A best practices p 346 A93-42122 performance using complex visual displays A voyage to Mars: A challenge to collaboration between [AD-A262180] p 70 N93-14614 p 187 A93-27160 p 350 N93-29444 man and machines MANAGEMENT PLANNING Human-computer cooperative problem Pax permanent Martian base: Space architecture for the solving in satellite ground control The real world and lunar base activation scenarios p 188 first human habitation on Mars, volume 5 Using GOMS models and hypertext to create p 140 N93-18156 p 68 N93-14014 [NASA-CR-192042] representations of medical procedures for online display Space human factors discipline science plan Space life support engineering program p 141 N93-19039 NASA-TM-108023] p 194 N93-21370 Human Factors Issues in Aircraft Maintenance and [NASA-CR-192188] p 188 A93-27170 INASA-TM-1080231 A distributed telerobotics system for space operations Mare habitat p 352 N93-29747 Inspection. Science, technology, and management: A p 192 A93-29132 MANNED ORBITAL LABORATORIES program review The European astronauts training programme Intelligent virtual interfaces for telerobotics IPB93-1469751 p 234 N93-23647 p 226 N93-24346 p 193 A93-29136 MANAGEMENT SYSTEMS An operator interface design for a telerobotic inspection MANNED REENTRY Design of biomass management systems and Anthropometric data from launch and entry suited test | AIAA PAPER 93-1160 | components for closed loop life support systems p 231 A93-31034 subjects for the design of a recumbent seating system p 351 N93-29728 Agent-based pilot-vehicle interfaces - Concept and p 321 N93-29044 rototype p 262 A93-34986 Perceptual effects of synthetic reverberation on MANIPULATORS prototype MANNED SPACE FLIGHT Space based robot manipulators - Dynamics of contact To the stars with the cytoskeleton? p 1 A93-11198 Supporting human exploration in space - Biomedical three-dimensional audio systems and trajectory planning for impact minimization p 257 A93-36583 p 135 A93-22827 esearch p 48 A93-17428 K.E. Tsiolkovsky and biomedical problems connected An evaluation of miniaturized aircraft keyboards p 348 A93-42844 Collision avoidance of a multiple degree of redundancy with space exploration; Lectures Devoted to K.E. Tsiolkovsky's Ideas, 25th, Kaluga, Russia, Sept. 11-14, Investigation of individual and typological features of an manipulator operating through a window p 136 A93-23846 operator's nervous system under different work regimes Research and development of sensing and manipulation p 90 A93-18406 p 339 A93-43024 1990, Transactions techniques for space robotics on a testbed Designs and development of a master-slave K.E. Tsiolkovsky on the role of the human factor in the [AIAA PAPER 93-0794] p 390 A93-49357 p 136 A93-24873 teleoperated robot problem of space flight safety p 100 A93-18409 Transforming human hand motion for telemanipulation Characteristics and requirements of robotic manipulators Approaches to solving the problem of decompression p 182 A93-27003 p 390 A93-49394 for space operations safety of cosmonauts on their flights to Mars Real-time expert system interfaces, cognitive processes, Initial experiments on the end-point control of a 2-DOF p 90 A93-18410 p 183 A93-27024 and task performance - An empirical assessment long-reach elastic manipulator Problems of medical support during extravehicular Knowledge-based task planning for the Special Purpose p 394 A93-52503 activity during flights to Mars p 90 A93-18411
Physical fitness as a criterion of readiness for Dextrous Manipulator p 191 A93-29110 Human factors with nonhumans - Factors that affect p 98 A93-18412 computer-task performance omputer-task performance p 404 A93-52721 Human-centered automation and AI - Ideas, insights, Safety issues of manipulator systems under computer p 192 A93-29121 Biomedical engineering and space On the control of a class of flexible manipulators using p 103 A93-20015 and issues from the Intelligent Cockpit Aids research p 407 A93-52764 effort feedback linearization approach p 231 A93-31533 Research on sleep, circadian rhythms and aging 3-D target designation using two control devices and Kinematics and control of a fully parallel force-reflecting Applications to manned spaceflight p 94 A93-20658 Life support research and development for the an aiding technique --- in fighter cockpits hand controller for manipulator teleoperation p 408 A93-53120 p 364 A93-45598 Department of Energy Space Exploration Initiative Direct manipulation and intermittent automation in p 137 A93-25309 A manipulator control testbed - Implementation and Task-analytic evaluations of Space Station Freedom advanced cockpits applications [AD-A2538141 p 187 A93-27157 p 176 A93-27169 p 32 N93-11784 [AAS PAPER 92-054] workstations p 392 A93-50594 Super auditory localization for improved human-machine Crew performance in Spacelab Theoretical and experimental studies for continuous path Head-down tilt bedrest: HDT'88 - An international control of flexible manipulator mounted on a free-flying [AD-A2546991 p 34 N93-12229 collaborative effort in integrated systems physiology p 164 A93-28689 space robot Measures of user-system interface effectiveness: [AIAA PAPER 93-3863] p 392 A93-51449 Assessment of structured judgment evaluation techniques A physician's workstation designed for NASA and Motion planning of a dual-arm free-floating manipulator for graphical, direct-manipulation style interfaces earth-based applications n 189 A93-28695 with inertially fixed base p 63 N93-12576 Controlled ecological life-support system - Use of plants [AIAA PAPÉR 93-3864] p 393 A93-51450 Human perceptual deficits as factors in computer for human life-support in space p 190 A93-28715 A space manipulator with inertially fixed base? Cardiovascular physiology - Effects of microgravity interface test and evaluation p 393 A93-51452 [AIAA PAPER 93-3866] p 166 A93-28719 p 63 N93-12712 p 395 A93-52641 Machine vision in space Ocular attention-sensing interface system The overview effect - The impact of space exploration Joint-space Lyapunov-based direct adaptive control of [NASA-CR-190884] p 65 N93-13450 on the evolution of nursing science p 155 A93-28722 Formal aspects of human-computer interaction a kinematically redundant telerobot manipulator Management of trauma and emergency surgery in p 407 A93-53038 p 66 N93-13909 p 167 A93-28734 Cognitive engineering models in space systems Optimal manipulator trajectories for space robots Neurology of microgravity and space travel

[NASA-CR-192001]

N93-18517

[AAS PAPER 91-669]

p 410 A93-55838

p 168 A93-28735

MANNED SPACECRAFT SUBJECT INDEX

AGEONAL I		ODDIEG TINDEX
Health in space - And on Earth p 156 A93-28738	Evolving EVA system capability for the evolving Space	Mars: A reassessment of its interest to biology
Medical-care systems for long-duration space	Station Freedom requirements p 312 N93-27791	p 113 N93-18550
missions p 169 A93-28755 Skin care in the space environment	Simplified Aid For Crew Rescue (SAFR)	MARS ATMOSPHERE Problems of medical support during extravehicular
p 170 A93-28756	p 313 N93-27793 Manned systems technology discipline	activity during flights to Mars p 90 A93-18411
Limitations to the study of man in space in the U.S.	p 314 N93-27860	Mitigation of dust contamination during EVA operations
space program p 213 A93-30285 A review of muscle atrophy in microgravity and during	MANNED SPACECRAFT	on the moon and Mars p 345 A93-42107 MARS ENVIRONMENT
prolonged bed rest p 213 A93-30771	TRIALSS - Tool for Rapid and Intelligent Advanced Life	The possibility of life on Mars during a water-rich past
Predicting skeletal adaptation in altered gravity	Support System Selection and Sizing [SAE PAPER 921123] p 291 A93-41315	p 196 A93-27887
environments p 213 A93-30772	Catalytic oxidation for treatment of ECLSS and PMMS	A study to explore locomotion patterns in partial gravity
The effects of prolonged weightlessness and reduced gravity environments on human survival	waste streams Process Material Management	environments [SAE PAPER 921157] p 293 A93-41340
p 214 A93-30773	Systems	ASDA - Advanced Suit Design Analyzer computer
Bioregenerative life support as self-sustaining	[SAE PAPER 921274] p 301 A93-41443	program
ecosystem in space p 231 A93-32073	Regenerative Life Support Systems Test Bed performance - Lettuce crop characterization	[SAE PAPER 921381] p 308 A93-41539
Longitudinal study of astronaut health - Mortality in the years 1959-1991 p 216 A93-32783	SAE PAPER 921391 p 309 A93-41549	An analysis of human performance in simulated partial-gravity environments p 347 A93-42173
European astronaut candidates in training in the CIS	Manned Space-Laboratories Control Centre (MSCC)	Human locomotion and workload for simulated lunar and
p 256 A93-34593	training p 339 A93-43330	Martian environments p 394 A93-52406
Methodology for clinical testing of antiradiation means	EVA/manned systems p 312 N93-27789	Pax permanent Martian base: Space architecture for the
intended for manned space flight conditions p 249 A93-35236	Manned systems technology discipline p 314 N93-27860	first human habitation on Mars, volume 5 [NASA-CR-192042] p 140 N93-18156
Protein composition of the blood plasma of cosmonauts	Manned lunar surface site: Conceptual study on	Mars: A reassessment of its interest to biology
after lengthy orbital flights p 249 A93-35243	pressurized lunar surface operation rover	p 113 N93-18550
Space Station Freedom Environmental Health Care	p 316 N93-28032	MARS LANDING
Program SAE PAPER 921138 p 292 A93-41325	Computerized atmospheric trace contaminant control	Approaches to solving the problem of decompression safety of cosmonauts on their flights to Mars
The psychological effects of isolation on a space station	simulation for manned spacecraft [NASA-TM-108409] p 321 N93-28977	p 90 A93-18410
- A simulation study	MANPOWER	Pax permanent Martian base: Space architecture for the
[SAE PAPER 921191] p 287 A93-41369	Requirements for an automated human factors,	first human habitation on Mars, volume 5
Crop interactions in polyculture and their implications for CELSS design	manpower, personnel, and training (HMPT) planning tool	[NASA-CR-192042] p 140 N93-18156 MARS SURFACE
[SAE PAPER 921197] p 295 A93-41373	[AD-A258531] p 195 N93-21753 Selection of personnel for stressful occupations: The	The possibility of life on Mars during a water-rich past
A trade study method for determining the design	potential utility of psychophysiological measures as	p 196 A93-27887
parameter of CELSS subsystems	selection tools	Pressure suit requirements for moon and Mars EVA's
[SAE PAPER 921198] p 295 A93-41374 Instrumentation for microbial monitoring of	[AD-A264571] p 363 N93-32011 MANUAL CONTROL	p 346 A93-42123 Artificial gravity augmentation on the moon and Mars
decontamination or biocide system effectiveness	Relationship between ERP and workload in manual	p 346 A93-42127
SAE PAPER 921233 p 297 A93-41407	control p 30 A93-13721	An integrated human/plant metabolic mass balance
Advanced life support systems in lunar and Martian	Decrement in manual arm performance during whole	model p 347 A93-42130 Relevance of antarctic microbial ecosystems to
environments utilizing a higher plant based engineering paradigm	body cooling p 88 A93-18038 A force-reflecting teleoperated hand system for the study	exobiology p 355 A93-44877
[SAE PAPER 921286] p 302 A93-41452	of tactile sensing in precision manipulation	Pax permanent Martian base: Space architecture for the
Consumables and wastes estimations for the First Lunar	p 263 A93-35536	first human habitation on Mars, volume 5
Outpost [SAE PAPER 921287] p 302 A93-41453	A procedure for estimating the variables of the	[NASA-CR-192042] p 140 N93-18156 MASKING
Biofilm formation and control in a simulated spacecraft	working-condition space of a man-machine system for the control of a moving object p 364 A93-45685	Auditory perception
water system - Three year results	Operator performance with alternative manual control	[AD-A255061] p 23 N93-12469
[SAE PAPER 921310] p 303 A93-41472	modes in teleoperation p 390 A93-49397	Spatio-temporal masking: Hyperacuity and local
Air Handling and Atmosphere Conditioning systems for manned spacecraft - A design and performance data	Coordinated action in 3-D space I AD-A2498301 p 31 N93-10994	adaptation [AD-A257934] p 121 N93-18006
survey	[AD-A249830] p 31 N93-10994 Architecture of autonomous systems	Auditory spectro-temporal pattern analysis
SAE PAPER 921350 p 306 A93-41509	[NASA-CR-192974] p 266 N93-26047	[AD-A264691] p 361 N93-31981
Shielding strategies for human exploration missions [SAE PAPER 921376] p 308 A93-41534	Handedness and motor programming effects of manual	MASKS Evaluation of lightweight and low profile communications
First entry operations for spacecraft	control and movement AD-A264022 p 340 N93-30027	devices for Respiratory Protective system 21 (RESPO
SAE PAPER 921384 p 308 A93-41542	MANUALS	21)
Potential health hazards from thermal degradation	Life Support and Habitability Manual ESA PSS-03-406	[AD-A253393] p 30 N93-10217
events - Particulate vs. gas phase effects ISAE PAPER 9213881 p 282 A93-41546	[SAE PAPER 921338] p 305 A93-41497	Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21)
Design and preliminary testing of a membrane based	MARINE BIOLOGY Phytoplankton photosynthesis in natural mixed layers	[AD-A253394] p 30 N93-10288
water recycling system for European manned space	[AD-A255010] p 39 N93-12871	Evaluation of multilayer mask concept for RESPO 21
missions	How do zooplankton feed? A critical microgravity	[AD-A253392] p 33 N93-12079
SAE PAPER 921396 p 309 A93-41553 An operational evaluation process for long-duration	experiment p 158 N93-21097 Gravity as a factor in the orientation and vertical	Evaluation and optimization of a flexible filtration system for respiratory protection system 21
mission habitats in space p 345 A93-42114	migration of marine zooplankton p 158 N93-21098	[AD-A262467] p 284 N93-28758
An integrated human/plant metabolic mass balance	MARINE CHEMISTRY	MASS
model p 347 A93-42130	Chemical environments of submarine hydrothermal	A body mass measurement device based on the oscillation principle p 221 N93-24400
Problems of respiratory physiology during space flight p 332 A93-44849	systems supporting abiogenetic theory p 74 A93-18005	oscillation principle p 221 N93-24400 MASS SPECTROMETERS
Space Station Freedom payload operations in the 21st	An experimental approach to chemical evolution in	Design of ion source of respiratory mass spectrometer
century p 350 A93-45436	submarine hydrothermal systems p 74 A93-18008	p 11 A93-13713
Main medical results of extended flights on Space Station Mir in 1986-1990 p 386 A93-52401	Photo and thermal reactions of ferrous hydroxide	MASSIVELY PARALLEL PROCESSORS
Pre-adaptation to shiftwork in space	formation of hydrogen in Archaean ocean relevant to chemical origin of life p 269 A93-36561	Temporal Frequency Spectrum for describing and
p 386 A93-52403	Hydrothermal dehydration of aqueous organic	modeling motion perception p 232 A93-33250 Simulation of excitatory/inhibitory interactions in single
Medical concerns for exploration-class missions	compounds p 397 A93-53291	auditory neurons
p 386 A93-52409	MARINE METEOROLOGY	[AD-A253614] p 50 N93-13252
Meeting human needs [AAS PAPER 91-313] p 400 A93-54306	Marine microbial production of dimethylsulfide from dissolved dimethylsulfoniopropionate	MATERIAL BALANCE
Life support systems	[NASA-CR-193278] p 330 N93-30665	Recycling and source reduction for long duration space
[AAS PAPER 91-320] p 409 A93-54308	MARINE TECHNOLOGY	habitation [SAE PAPER 921121] p 290 A93-41313
Remote medical systems for the human exploration of space	Conspicuity of aids to navigation. Part 1: Temporal patterns for flashing lights	MATERIALS HANDLING
[AAS PAPER 91-321] p 401 A93-54309	[AD-A264626] p 341 N93-30426	Space biology initiative program definition review. Trade
NASA's manned space flight program	MARKOV CHAINS	study 1: Automation costs versus crew utilization
[AAS PAPER 91-626] p 402 A93-55805	JPRS report: Science and technology. Central Eurasia:	p 208 N93-23070 MATERIALS TESTS
DoD space radiation concerns [AD-A253135] p 13 N93-10613	Life sciences (JPRS-ULS-92-020) p 244 N93-25406	Biodeterioration of materials in water reclamation
Annual report	MARS (PLANET)	systems
[NASA-CR-191389] p 105 N93-16840	Preservation of biological information in thermal spring	[SAE PAPER 921311] p 303 A93-41473
Protective helmet assembly INASA-CASE-MSC-21842-11 p 106 N93-17088	deposits - Developing a strategy for the search for fossil life on Mars p 197 A93-28377	MATHEMATICAL LOGIC Crucial role of detailed function, task, timeline, link, and
NASA-CASE-MSC-21842-11 p 106 N93-17088 Study on environment control and life support	life on Mars p 197 A93-28377 The real world and lunar base activation scenarios	Crucial role of detailed function, task, timeline, link, and human vulnerability analyses in HRA
technology p 149 N93-20413	p 68 N93-14014	[DE93-001923] p 321 N93-28942

SUBJECT INDEX MENTAL PERFORMANCE

		MENTAL PERI ORMANOL
MATHEMATICAL MODELS	A health care system for the Space Station	MEMBRANES
The dynamic mathematical model and digital simulation	[NASA-TM-108093] p 65 N93-13571	Development of membrane gas removal technology for
of the environmental control system p 61 A93-14319	Test and evaluation report of the Physio Control	microgravity liquid flow systems
Comparative test data assessment and simplified math	Defibrillator/Monitor, Model LifePak(tm) 6s	[SAE PAPER 921162] p 294 A93-41344
modelling for Sabatier CO2 reduction subsystem SAE PAPER 921228 p 296 A93-41402	AD-A255691 p 52 N93-14103 Improved head support stand adjustable by	Membrane technology for zero gravity life support systems
Development of physical and mathematical models for	compoundturnbuckle	ISAE PAPER 9213201 p 304 A93-41482
the Porous Ceramic Tube Plant Nutrification System	[AD-D015384] p 55 N93-15249	Modeling of membrane processes for air revitalization
(PCTPNS)	Cardiovascular stress test with non-invasive	and water recovery
NASA-TM-107551 p 4 N93-10085 Self-programming of matter and the evolution of	techniques p 221 N93-24399 Automated system for early breast cancer detection in	[SAE PAPER 921352] p 306 A93-41511
proto-biological organizations	mammograms p 253 N93-25568	High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512
[DE92-015244] p.5 N93-10628	Transcutaneous analyte measuring methods	Design and preliminary testing of a membrane based
Visual perception of structure from motion	[AD-A262861] p 333 N93-29509	water recycling system for European manned space
[AD-A253235] p 26 N93-11503 Operator workload predictions for the revised AH-64A	MEDICAL PERSONNEL The overview effect - The impact of space exploration	missions
workload prediction model. Volume 2: Appendixes A	on the evolution of nursing science p 155 A93-28722	[SAE PAPER 921396] p 309 A93-41553 Experimental and theoretical study on membrane
through H	Guide for aviation medical examiners	distillation using thermopervaporation
[AD-A254939] p 63 N93-12545	[PB92-219690] p 172 N93-21047	[SAE PAPER 921397] p 309 A93-41554
Formal aspects of human-computer interaction	MEDICAL PHENOMENA	The role of central monoaminergic systems in arousal
p 66 N93-13909 The relationship between environmental conditions and	A new test of scanning and monitoring ability: Methods and initial results	and selective attention [AD-A258500] p 122 N93-18264
UH-60 cockpit temperature	[AD-A249123] p 24 N93-10321	A membrane-based subsystem for water-vapor recovery
[AD-A255918] p 69 N93-14090	MEDICAL SCIENCE	from plant-growth chambers
Conversion of temporal correlations between stimuli to	The overview effect - The impact of space exploration	[NASA-CR-177602] p 149 N93-20065
spatial correlations between attractors [PREPRINT-856] p 96 N93-16962	on the evolution of nursing science p 155 A93-28722 Center of Excellence in laser medicine	Kinetic studies of interfacial photocurrents in platinized
Mathematics and biology: The interface, challenges and	[DE92-018760] p 22 N93-11445	chloroplasts DE93-002344 p 211 N93-25104
opportunities	JPRS report: Science and technology, Central Eurasia:	Effect of cytoskeletal reagents on stretch activated ion
[DE92-041207] p 82 N93-17359	Life sciences	channels
Automation of closed environments in space for human	JPRS-ULS-92-024 p 40 N93-13033 Walter Reed Army Institute of Research biannual	[AD-A261089] p 245 N93-25764
comfort and safety [NASA-CR-192045] p 138 N93-17971	report	Membrane technology: A search for membranes for submarine atmosphere control
Toward the ideal military aviation sunglass	[AD-A255630] p 52 N93-14162	[AD-A260581] p 266 N93-25904
[AD-A258200] p 140 N93-18200	Transcutaneous Analyte Measuring Methods (TAMM),	The chronic effects of jP-8 jet fuel exposure on the
Decision paths in complex tasks	phase 2 [AD-A256327] p 54 N93-15192	lungs
[NASA-CR-192121] p 132 N93-18359 Titan p 114 N93-18553	Aviation medicine research: A historical review	AD-A264162 p 334 N93-30153 MEMORY
Retinal modeling: Segmenting motion from	[AD-A258198] p 121 N93-18217	Aging, expertise, and narrative processing
spatio-temporal inputs using neural networks	Commercial opportunities in bioseparations and	p 180 A93-28724
[AD-A258854] p 125 N93-19369	physiological testing aboard Space Station Freedom	Satiation or availability? Effects of attention, memory,
Occupant simulation as an aspect of flight safety research p 142 N93-19665	p 206 N93-22649 Achieving the promise of the bioscience revolution: The	and imagery on the perception of ambiguous figures p 405 A93-55348
Medical evaluation of spatial disorientation mishaps	role of the Federal Government	Neuromagnetic investigations of cortical regions
p 134 N93-19703	[PB93-139970] p 244 N93-25457	underlying short-term memory
Optimal design of composite hip implants using NASA technology p 174 N93-22188	Hyperbaric treatment p 360 N93-31454	[AD-A255788] p 58 N93-14646
Integrated oxygen recovery system	An annotated bibliography of research involving women,	Conversion of temporal correlations between stimuli to spatial correlations between attractors
[NASA-CR-192343] p 234 N93-22663	conducted at the US Army Research Institute of Environmental Medicine	[PREPRINT-856] p 96 N93-16962
Analysis and synthesis of adaptive neural elements and	[AD-A265497] p 360 N93-31917	Automatic information processing and high performance
assemblies [AD-A259954] p 219 N93-24247	MEDICAL SERVICES	skills: Individual differences and mechanisms of performance improvement in search-detection and
Anatomy and physiology of plant conductive systems	Problems of medical support during extravehicular	complex tasks
[PB93-156032] p 245 N93-25877	activity during flights to Mars p 90 A93-18411	[AD-A257711] p 100 N93-17684
1991 NASA Life Support Systems Analysis workshop	Using GOMS models and hypertext to create representations of medical procedures for online display	Comparing performance on implicit memory tests
[NASA-CR-4466] p 310 N93-27100 1992 NASA Life Support Systems Analysis workshop	p 188 A93-27170	[AD-A258168] p 131 N93-17921 The central executive component of working memory
[NASA-CR-4467] p 310 N93-27101	Flight physiology - Clinical considerations	[AD-A258724] p 135 N93-20326
Marshall Space Flight Center ECLSS technology	p 164 A93-28690	A cognitive architecture for human performance process
activities p 312 N93-27724	A physician's workstation designed for NASA and	model research
Biophysical model for handwear insulation testing [AD-A262926] p 320 N93-28884	earth-based applications p 189 A93-28695	[AD-A261040] p 258 N93-25815 Neuromagnetic investigation of cortical regions
MATRICES (MATHEMATICS)	Health services at the Kennedy Space Center p 154 A93-28711	underlying short-term memory
A robust model for finding optimal evolutionary trees	Emergency medical operations at Kennedy Space	[AD-A261445] p 261 N93-26521
[DE93-010682] p 330 N93-30483	Center in support of space shuttle p 166 A93-28712	How expert pilots think: Cognitive processes in expert
MAXIMUM LIKELIHOOD ESTIMATES Statistically based decompression tables 8:	Management of trauma and emergency surgery in	decision making [DOT/FAA/RD-93/9] p 288 N93-27103
Linear-exponential kinetics	space p 167 A93-28734	Analysis of neural systems involved in modulation of
[AD-A257613] p 120 N93-17926	Medical-care systems for long-duration space missions p 169 A93-28755	memory storage
MAZE LEARNING	missions p 169 A93-28755 Skin care in the space environment	[AD-A262418] p 283 N93-27654
Analyzing the path of responding in maze-solving and other tasks p 202 A93-32652	p 170 A93-28756	Representations of shape in object recognition and long-term visual memory
MEASURING INSTRUMENTS	Mechanisms of immune failure in burn injury	[AD-A264342] p 341 N93-30163
Transcutaneous Analyte Measuring Methods (TAMM),	p 15 N93-11285	The test memorization of symbols and numbers: A
phase 2	Walter Reed Army Institute of Research biannual	computer generated test for visual sensitivity
[AD-A256327] p 54 N93-15192 A body mass measurement device based on the	report [AD-A255630] p 52 N93-14162	p 343 N93-31233 MENINGITIS
oscillation principle p 221 N93-24400	A paradigm shift in Air Force medicine	Dramatic reduction of meningococcal meningitis among
MECHANICAL DEVICES	[AD-A258334] p 121 N93-18159	military recruits in Italy after introduction of specific
Portable seat lift	X Ray System, Lightweight Medical (XRSLM)	vaccination p 18 N93-11303
[NASA-CASE-MFS-28610-1] p 106 N93-17045 MECHANIZATION	[AD-A258159] p 123 N93-18295	Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304
The strategic role of automation and robotics for	Study of the spectrum of power of cardiac rhythm during tasks relating to the safety of the control of an	MENSTRUATION
Columbus utilization p 181 A93-26567	apparatus p 127 N93-19707	Functional state of the vegetative nervous system in
MEDICAL EQUIPMENT	Automated system for early breast cancer detection in	women undergoing high-altitude adaptation and readaptation to 760 m above sea level
Cerebral blood flow - Comparison of ground-based and spaceflight data and correlation with space adaptation	mammograms p 253 N93-25568	p 44 A93-15165
syndrome p 87 A93-17553	Medical aspects of cold weather operations: A handbook	MENTAL HEALTH
Biomedical engineering and space*	for medical officers [AD-A263559] p 336 N93-30588	Neuropsychiatric morbidity in early HIV disease:
p 103 A93-20015 Comparisons of molecular sieve oxygen concentrators	Health maintenance facility system effectiveness	Implications for military occupational function p 18 N93-11299
for potential medical use aboard commercial aircraft	testing	Life support and self-sufficiency in space communities
[AD-A253648] p 31 N93-11279	[NASA-TM-104737] p 372 N93-32328	p 105 N93-16866
Functional MRI studies of human vision on a clinical imager	MELANIN Investigation of laser-induced retinal damage	MENTAL PERFORMANCE Doing two things at the same time
[DE92-017448] p 49 N93-12566	[AD-A264096] p 338 N93-31094	p 180 A93-27817
· · · · · · · · · · · · · · · · · · ·		

MESONS SUBJECT INDEX

Aging, expertise, and narrative processing METAROLISM METAL HALIDES Growth and yield characteristics of 'Waldmann's Green' p 180 A93-28724 Clinical and diagnostic requirements - Biochemical Effect of task complexity on mental performance during leaf lettuce under different photon fluxes from metal halide exploration of amino acid metabolism, tRNA turnover and immersion hypothermia p 211 A93-30279 p 49 A93-17442 or incandescent + fluorescent radiation lymphocyte activation Neurobehavioral test in civil aviation flight personnel p 357 A93-46469 Metabolic changes observed in astronauts METAL IONS p 223 A93-30443 p 84 A93-17535 The asthenic syndrome and the dynamics of Principles of the organization of calcium metabolism Energy expenditure climbing Mt. Everest p 7 A93-10124 mental-work capacity p 256 A93-35241 p 92 A93-20031 Effects of early bright, late bright and dim illumination Ribezymes - A distinct class of metalloenzymes Response of adrenergic receptors to 10 days head-down upon circadian neuroendocrine, electrophysiological and p 398 A93-54163 p 162 A93-28679 behavioral responses **METAL OXIDES** The effects of growth temperature on the methyl sterol [AD-A254129] Development of a regenerable metal oxide sheet matrix p 13 N93-10661 and phospholipid fatty acid composition of Methylococcus CO2 removal system Mental workload assessment in the cockpit: Feasibility capsulatus (Bath) p 153 A93-28691 of using electrophysiological measurements, phase 1 ISAE PAPER 9212981 n 302 A93-41463 [AD-A254138] Changes in vitamin A status following prolonged p 25 N93-10662 Portable life support system regenerative carbon dioxide immobilization (simulated weightlessness) NASA Space Human Factors Program and water vapor removal by metal oxide absorbents . p 166 A93-28720 [NASA-TM-108005] p 31 N93-10890 preprototype hardware development and testing ISAE PAPER 9212991 p 303 A93-41464 Relating cognitive function to military aviator performance in early HIV infection p 17 N93-11298 Atrial natriuretic peptide degradation by CPA47 cells p 17 N93-11298 Evidence for a divalent cation-independent cell-surface METEORITIC COMPOSITION p 155 A93-28726 Cornet impacts and chemical evolution on the ombarded earth p 109 A93-17980 A psychometrically sound cognitive diagnostic model: proteolytic activity Effect of remediation as empirical validity Effect of dexamethasone on proliferating osteoblasts bombarded earth p 52 N93-14109 The origin of the polycyclic aromatic hydrocarbons in [AD-A255926] Inhibition of prostaglandin E2 synthesis, DNA synthesis, p 110 A93-17983 Sleep inertia: Is there a worst time to wake up? and alterations in actin cytoskeleton meteorites p 52 N93-14240 Comment on 'Summary and implications of reported [AD-A256602] p 155 A93-28728 Cognitive and affective components of mental workload: amino acid concentrations in the Murchison meteorite' by Simulated weightlessness and bone metabolism p 412 A93-53294 Understanding the effects of each on human decision Gravitational stimulation enhances insulin sensitivity E. L. Shock and M. D. Schulte METEOROLOGICAL RADAR making behavior p 99 N93-16783 p 168 A93-28736 Enhanced performance using physiological feedback Validity of clinical color vision tests for air traffic control Quantitative autoradiographic analysis of muscarinic [AD-A258006] specialists p 130 N93-17816 cholineraic and GABAA (henzodiazenine) recentors in the An analysis of a sustained flight operation training [AD-A258219] n 123 N93-18301 forebrain of rats flown on the Soviet Biosatellite COSMOS mission in Navy attack aircraft METHANE p 156 A93-28743 Methane transport mechanisms and isotopic fractionation in emergent macrophytes of an Alaskan [AD-A258199] p 131 N93-18205 Alterations in biosynthetic accumulation of collagen The effects of iconic presentation on individuals types I and III during growth and morphogenesis of embryonic mouse salivary glands p 156 A93-28746 p 133 N93-18949 p 38 A93-16544 [AD-A2587851 Study of the spectrum of power of cardiac rhythm during METHODOLOGY Cultivation of Hamster Kidney cells in a Dynamic Cell tasks relating to the safety of the control of an Methodology issues concerning the accuracy of Culture System in space (Spacelab IML-1 mission) p 127 N93-19707 kinematic data collection and analysis using the ariel p 200 A93-32071 Modeling the dynamics of mental workload and human performance analysis system Metabolism in cosmonauts - Results of biochemical performance in complex systems NASA-CR-1856891 p 34 N93-12211 blood analyses for crew members of seven primary [AD-A258553] p 135 N93-19956 METHYL COMPOUNDS missions on the Mir orbital station p 250 A93-35254 The effects of growth temperature on the methyl sterol A counitive architecture for human performance process Mathematical model for the exchange of gases in the and phospholipid fatty acid composition of Methylococc model research lungs with special reference to carbon monoxide [AD-A261040] capsulatus (Bath) p 258 N93-25815 p 153 A93-28691 Simulated sustained flight operations and performance. p 271 A93-39707 Part 1: Effects of fatique Analysis of the Variable Pressure Growth Chamber using Photoreceptors regulating circadian behavior: A mouse [AD-A261012] p 266 N93-25859 the CASE/A simulation package model IAD-A2648811 Facilitation and interference in identification of pictures [SAE PAPER 921122] p 291 A93-41314 p 337 N93-30908 MICROBIOLOGY Metabolic responses to simulated extravehicular A microfermentation test for the rapid identification of p 260 N93-26356 [AD-A261484] p 156 A93-28733 Physiological indices of mental workload ISAE PAPER 9213031 p 282 A93-41468 p 260 N93-26391 Microbiology operations and facilities aboard [AD-A261692] An integrated human/plant metabolic mass balance Duration of alpha suppression increases with angle in restructured Space Station Freedom p 347 A93-42130 model mental rotation task [SAE PAPER 921213] p 296 A93-41389 Influence of temperature and metabolic rate on work [AD-A261592] p 260 N93-26435 performance with Canadian Forces NBC clothing --Effects of refrigerating preinoculated Vitek cards on Expertise, text coherence, and constraint satisfaction: microbial physiology and antibiotic susceptibility nuclear, biological, and chemical assault protective p 273 A93-41390 and methodological Effects on harmony and settling rate --- mental |SAE PAPER 921214| p 389 A93-49218 garments representations Metabolic factors influencing myocardial recovery from Microbiological concerns approaches related to bacterial water quality in IAD-A2627031 p 288 N93-28901 acidosis (CiC3) aircrew training spaceflight Predicting I AD-A252376 Í p 14 N93-10796 [SAE PAPER 921232] p 297 A93-41406 psychometric g Allergic and nonallergic rhinitis in Greek pilots p 21 N93-11317 Relevance of antarctic microbial ecosystems AD-A264021 p 340 N93-30026 exobiology p 355 A93-44877 Microbiological analysis of debris from STS-42 IML-1 Representations of shape in object recognition and Kinetic tetrazolium microtiter assay long-term visual memory [NASA-CASE-MSC-21979-1] p 82 N93-17049 p 341 N93-30163 by direct plating of rinse waters Biotechnical production and use of pyruvic acid with The air traffic controller's mental model and it's INASA-TM-1083751 pecial reference to coenzyme regeneration p 6 N93-12174 ECLSS medical support activities implications for equipment design and trainee selection IVTT-PUBS-771 p 209 N93-23369 [NASA-CR-184429] p 23 N93-12427 p 341 N93-30322 Cellular and tissue injury during nonfreezing cold injury Computer-generated parallel tests for aptitude and frostbite Microbiological methods for the water recovery systems measurement in the selection of aviation operators IAD-A2605741 p 254 N93-25900 test, revision 1.1 p 343 N93-31229 [DLR-FB-92-29] Metabolic response of environmentally isolated [NASA-CR-184390] p 64 N93-12966 Background and objectives of the PARAT program microorganisms to industrial effluents: Use of a newly Kinetic tetrazolium microtiter assay p 343 N93-31230 described cell culture assay p 245 N93-26066 [NASA-CASE-MSC-21979-1] p 82 N93-17049 The test memorization of symbols and numbers: A SPE water electrolyzers in support of the lunar Planetary Biology and Microbial Ecology: Molecular Ecology and the Global Nitrogen cycle computer generated test for visual sensitivity outpost p 315 N93-27977 p 343 N93-31233 Wound healing and connective tissue metabolism: The [NASA-CR-4497] p 269 N93-26157 The concentration loading test system: A computer role of hyperbaric oxygen therapy Microbiological test results of the environmental control generated process for acquisition of attentiveness [AD-A262483] p 285 N93-28759 and life support systems vapors compression distillation p 344 N93-31235 Regulation of alternative CO2 fixation pathways in subsystem recycle tank components following various The aircraft position tests: A computer generated procaryotic and eucaryotic photosynthetic organisms pretreatment protocols process for acquisition of spatial orientation capability [DE93-012109] p 276 N93-29181 INASA-CR-1925701 p 359 N93-32354 p 344 N93-31236 Evaluation of dried storage of platelets for transfusion: Optimization of 15 parameters influencing the long-term The cube rotation test: A computer generated process Physiologic integrity and hemostatic functionality survival of bacteria in aquatic systems for acquisition of mental spatial manipulator capability [AD-A263240] p 334 N93-29620 p 359 N93-32365 INASA-CR-1925711 p 344 N93-31237 Beta-adrenergic blockade and lactate metabolism during MICROCLIMATOLOGY The PARAT tests as examination system exercise at high altitude p 344 N93-31238 Effects of microclimate cooling on physiology and IAD-A263544 I p 334 N93-29820 performance while flying the UH-60 helicopter simulator Effects of caffeine on mental performance and mood: Trial of emergency ration of the Spanish Air Force p 372 N93-32269 in NBC conditions in a controlled heat environment Implications for aircrew members p 368 N93-32247 [AD-A258502] p 129 N93-20400 **METABOLITES** A computer model to determine the primary contributors Experimental study of volatile metabolites of human ody p 11 A93-13711 Evaluation of two microclimate cooling air vests on a to relative radiation dose received by astronauts heated mannequin body p 43 A93-13935 Tyrosine - Effects on catecholamine release [AD-A2594101 p 194 N93-21269 p 204 A93-33038 MICROELECTRONICS METABOLIC DISEASES

New techniques for positron emission tomography in

p 23 N93-11873

the study of human neurological disorders

IDE92-0153531

Using the stereokinetic effect to convey depth -

p 102 A93-19987

Computationally efficient depth-from-motion displays

IAD-A2605741

Cellular and tissue injury during nonfreezing cold injury

p 254 N93-25900

SUBJECT INDEX MICROORGANISMS

MICROFIBERS

Intracellular targeting of the Yersinia YopE cytotoxin in mammalian cells induces actin microfilament disruption IFOA-B-40420-4.41 p 275 N93-27989

MICROGRAVITY

Hematological changes space microgravity environments p 46 A93-15528 Microgravity flight testing of a laboratory robot [AAS PAPER 91-035] p 62 A93-15583

The current status and prospects in the study of cell physiology under microgravity p 38 A93-16001 Accuracy of aimed arm movements in changed gravity

p 56 A93-16159 Engineering and technical support of experiments on board the Cosmos-2044 biosatellite p 77 A93-18419 Altered cell function in microgravity

p 79 A93-20660

Cellular immunosenescence - An overview

p 80 A93-20663 Computer-assisted three-dimensional reconstruction simulations of vestibular macular connectivities p 104 A93-20700 Energetics of walking and running - Insights from simulated reduced-gravity experiments

n 116 A93-21687 Short-term microgravity to isolate graviperception in cetts p 111 A93-21901

Moistening of the substrate in microgravity

A93-21906 Animal surgery in microgravity p 112 A93-24047 Blood volume reduction counteracts fluid shifts in water D 118 A93-25206 Preliminary analysis of sensory disturbances and behavioral modifications of astronauts in space

p 130 A93-25207 Study design for microgravity human physiology periments p 118 A93-25208

experiments Graviperception in unicellular organisms - A comparative behavioural study under short-term microgravity

p 151 A93-26548 Swimming behavior of the unicellular flagellate, Euglena gracilis, in simulated and real microgravity

p 151 A93-26549 COGIMIR - A study of cognitive functions in p 174 A93-26569

AUDIMIR - Directional hearing at microgravity

p 159 A93-26570 91 experiment -OPTOVERT: An AUSTROMIR Orientational effects from optokinetic stimulation

p 159 A93-26571 Influence of microgravity on immune system and genetic information p 160 A93-26572

Evaluating robot procedures and tasks for the flight telerobotic servicer A93-27156 p 176 A93-27169 Crew performance in Spacelab

Dynamics of the controlled environment conditions in 'SVET' greenhouse in flight p 152 A93-27460 Aseptic technique in microgravity p 168 A93-28737 Vestibular ataxia following shuttle flights - Effects of microgravity on otolith-mediated sensorimotor control of

p 169 A93-28750 Microgravity and bone adaptation at the tissue level

p. 170 A93-28761 Rotating-wall vessel coculture of small intestine as a prelude to tissue modeling - Aspects of simulated microgravity p 171 A93-28765 An experiment in vision based autonomous grasping

within a reduced gravity environment p 193 A93-29137 Magnetic Resonance Imaging evaluation of lower limb

muscles during bed rest - A microgravity simulation model p 212 A93-30280

Limitations to the study of man in space in the U.S. space program p 213 A93-30285 Cardiovascular problems during space flight

p 213 A93-30445

A review of muscle atrophy in microgravity and during rolonged bed rest p 213 A93-30771 prolonged bed rest Predicting skeletal adaptation in altered gravity

environments p 213 A93-30772 The effects of prolonged weightlessness and reduced gravity environments on human survival

p 214 A93-30773 Cultivation of Harnster Kidney cells in a Dynamic Cell Culture System in space (Spacetab IML-1 mission)

p 200 A93-32071 Alteration of structure and mobility of erythrocyte

aggregates under normal- to microgravity conditions p 200 A93-32072

The Biological Flight Research Facility p 239

A93-34581 Investigation of fluid-electrolyte metabolism and its hormonal regulation during the second joint Soviet-French space mission p 247 A93-35207 Healing of fractured bone in rats during readaptation p 241 A93-35260 following 14-day suspension

Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change p 242 A93-35264

8-OH-DPAT does not interfere with habituation to p 271 A93-38451 motion-induced emesis in cats Intraocular pressure and retinal vascular changes during transient exposure to microgravity p 278 A93-39710 Inhibition of EGF-induced signal transduction by microgravity is independent of EGF receptor redistribution in the plasma membrane of human A431 cells

p 272 A93-39715 Microgravity and orthostatic intolerance - Carotid hemodynamics and peripheral responses

p 278 A93-39716 Oxygen regime in the frontal cerebral cortex of monkeys during a two-week space flight p 272 A93-40773 Simulating reduced gravity - A review of biomechanical issues pertaining to human locomotion

p 289 A93-41175 Program development for exercise countermeasures p 292 A93-41327 [SAE PAPER 921140] Pilot investigation - Nominal crew induced forces in

ISAE PAPER 9211551 p 293 A93-41338 A study to explore locomotion patterns in partial gravity

ISAE PAPER 9211571 p 293 A93-41340 Design of a Shuttle air and water prefilter for reduced

operation ISAE PAPER 9211611 p 294 A93-41343 Development of membrane gas removal technology for

microgravity liquid flow systems ISAE PAPER 9211621 p 294 A93-41344

Two phase fluid management for hydroponics p 294 A93-41345 |SAE PAPER 921163| Conceptual design of ECLSS microgravity test beds |SAE PAPER 921164| p 294 A93-41346 A novel membrane device for the removal of water vapor

and water droplets from air |SAE PAPER 921322| p 304 A93-41484

Design and evaluation of a payload to support plant growth onboard COMET 1 ISAE PAPER 9213891 p 308 A93-41547

The General Purpose Work Station, a spacious nicrogravity workbench ISAE PAPER 9213941 p 309 A93-41552

Experimental and theoretical study on membrane distillation using thermopervaporation p 309 A93-41554 ISAE PAPER 9213971

p 331 A93-42126 Medical care on the moon Artificial gravity augmentation on the moon and Mars p 346 A93-42127

An analysis of human performance in simulated p 347 A93-42173 partial-gravity environments Influence of simulated microgravity on the maximal oxygen consumption of nontrained and trained rats

p 323 A93-42192 Correlation between the lymph dynamics and venous pressure during short-term antiorthostatic effects

p 325 A93-43070 Spaceflight on STS-48 and earth-based unweighting produce similar effects on skeletal muscle of young rats p 326 A93-44179

Habituation to feline motion sickness

p 328 A93-44900 Effects of a microgravity environment on the crystallization of biological macromolecules

A93-45995 p 357 Image technology and information analysis of bone change with gravitational exposure p 378 A93-49177 Clinostats and centrifuges: Their use, value, and limitations in gravitational biological research; Symposium, Washington, Oct. 19, 1991, Report p 375 A93-49206 The simulation of microgravity conditions on the ground --- and biological effects of weightlessness

p 375 A93-49207 How well does the clinostat mimic the effect of microgravity on plant cells and organs?

p 376 A93-49213 Physical and digital simulations for IVA robotics

p 391 A93-49445 The first 'space' vegetables have been grown in the 'SVET' greenhouse using controlled environmental p 394 A93-52410 conditions

Pulmonary diffusing capacity, capillary blood volume, and cardiac output during sustained microgravity p 386 A93-52617

Effect of water immersion on muscle sympathetic nerve response during static muscle contraction

p 402 A93-55328 NASA Space Human Factors Program

p 31 N93-10890 p 14 N93-11284 INASA-TM-1080051 Space flight and immune system Establishing laboratory standards for biological flight experiments [NASA-CR-1844021 p 40 N93-12901

A study of the effects of micro-gravity on seed ermination p 40 N93-13167 germination

Effects of spaceflight on the proliferation of jejunal mucosal cells

INASA-CR-1913031 p.51 N93-13449 Bone loss and human adaptation to lunar gravity p 51 N93-14002

Passive zero-gravity leg restraint [NASA-CASE-ARC-11882-1-CU] N93-14713 p 70 STS-40 Spacelab Life Sciences 1 (SLS-1): The first

dedicated spacelab life sciences mission |NASA-TM-108034| p 80 N93-15823 Autonomous support for microorganism research in

space I NASA-CR-192062 I p 83 N93-17780 Design of a resistive exercise device for use on the Space Shuttle

[NASA-CR-192079] p 108 N93-17805 Investigation of wheat coleoptile response to phototropic

stimulations [NASA-CR-192157]

A proposal to determine properties of the gravitropic response of plants in the absence of a complicating q-force

INASA-CR-1922191 p 114 N93-19377 Biomedical Monitoring and Countermeasures Facility

p 205 N93-22624 Closed Ecological Life Support Systems*(CELSS) Test p 233 N93-22628

Zero-G life support for Space Station Freedom p 233 N93-22640

Commercial opportunities in bioseparations and physiological testing aboard Space Station Freedom p 206 N93-22649

Materials dispersion and biodynamics project research p 207 N93-22651 Optovert: An AustroMir-1991 experiment, Orientational

effects from optokinetic stimulation p 226 N93-24366 Monitoring of cardiovascular parameters during the AustroMir space flight p 220 N93-24367 Influence of microgravity on immune system and genetic

information p 220 N93-24370 The USO-concept applied to a biological model p 210 N93-24379 p 210 N93-24403 experiment Gravity and root morphogenesis

Development of Arabidopsis thaliana grown under microgravity conditions p 211 N93-24404 Investigation of the effects of Extra Vehicular Activity (EVA) and Launch and Entry (LES) gloves on performance p 266 N93-26061

performance The role of pyridoxine as a countermeasure for in-flight p 255 N93-26068 loss of lean body mass

Growth factor involvement in tension-induced skeletal muscle growth [NASA-CR-193023] p 282 N93-27113

Electrophoretic separation of cells and particles from rat pituitary and rat spleen

INASA-CR-1930731 p 276 N93-28415 Effect of microgravity on several visual functions during STS Shuttle missions: Visual Function Tester-Model 1 (VFT-1) p 284 N93-28740

Effect of microgravity on visual contrast threshold during STS Shuttle missions: Visual Function Tester-Model 2 (VFT-2) p 284 N93-28741 Effect of microgravity on the visual near point: Visual

Function Tester-Model 4 (VFT-4) n 284 N93-28742 NASA supporting studies for microgravity research on ye movements INASA-CR-1932331 p 285 N93-29041

Anthropometric data from launch and entry suited test subjects for the design of a recumbent seating system [NASA-TM-104769] p 321 N93-29044 Issues on human acceleration tolerance

long-duration space flights [NASA-TM-104753] p 334 N93-29651 Vibration isolation p 365 N93-31458

MICROMECHANICS

Micromotional studies of utricular and canal afferents INASA-CR-192703 | p 207 N93-22800

MICROMETEOROIDS Enhanced softgoods structures for spacesuit micrometeoroid/debris protective systems

| SAE PAPER 921258 | p 299 A93-41428 MICROORGANISMS

Effects of possible pollution sources of the atmosphere of a closed ecosystem on the growth of microorganisms p 101 A93-18418

The effects of growth temperature on the methyl sterol and phospholipid fatty acid composition of Methylococcus capsulatus (Bath) p 153 A93-28691 Microflora of cabins of manned space objects and the problem of biological damage to the structural materials

used in them p 262 A93-35237 Cryoprotective properties of water in the earth cryolithosphere and its role in exobiology

p 269 A93-36558

MICROPHONES SUBJECT INDEX

Life in hot springs and hydrothermal vents p 243 A93-36559 Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility p 273 Á93-41390 |SAE PAPER 921214| microbial monitoring Instrumentation for decontamination or biocide system effectiveness |SAE PAPER 921233| p 297 A93-41407 Water purification, microbiological control, sterilization and organic waste decomposition using an electrochemical advanced ozonation process p 297 A93-41408 ISAE PAPER 9212341 Immobilized cell bioreactors for water reclamation -Process stability and effect of reactor design ISAE PAPER 921277 p 301 A93-41446 Contaminant distribution and accumulation in water ISAE PAPER 9213601 p 307 A93-41519 Planetary quarantine in the solar system - Survival rates of some terrestrial organisms under simulated space conditions by proton irradiation p 378 A93-52408 Deep-sea smokers - Windows to a subsurface p 397 A93-53284 biosphere? Ozone - A new aspect of its effect on microorganisms p 398 A93-54971 Microbiological analysis of debris from STS-42 IML-1 by direct plating of rinse waters INASA-TM-1083751 p 6 N93-12174 ECLSS medical support activities [NASA-CR-184429] p 23 N93-12427 Anaerobic microbial transformation of aromatic hydrocarbons and mixtures of aromatic hydrocarbons and halogenated solvents IAD-A2556961 p 42 N93-14557 Ground testing of bioconvective variables such as morphological characterizations and mechanisms which regulate macroscopic patterns p 82 N93-17303 Autonomous support for microorganism research in INASA-CR-1920621 p 83 N93-17780 Regenerable biocide delivery unit p 112 N93-18351 [NASA-CASE-MSC-21763-1-SB] Biochemically active layers for selective material detection sensors IMBB-Z-0440-92-PUB1 p 158 N93-20959 Metabolic response of environmentally isolated microorganisms to industrial effluents: Use of a newly p 245 N93-26066 described cell culture assay Process for selectively recovering algae and protozoa [NASA-CASE-MFS-26124-1-NPO] p 276 N93-29174 Marine microbial production of dimethylsulfide from dissolved dimethylsulfoniopropionate |NASA-CR-193278| p 330 N93-30665 Micro-organisms. cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment IFOA-A-40065-4.51 p 359 N93-32423 MICROPHONES Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) p 30 N93-10288 MICROPROCESSORS An automated version of the dichotic listening test: Hardware, software, and procedural details p 120 N93-17895 LAD-A2581141 MICROWAVE EQUIPMENT Microwave digestion preparation and ICP determination of boron in human plasma p 377 A93-49570 **MICROWAVES** Microwaves and the visual analyzer p 250 A93-35247 Mechanisms of microwave induced damage in biologic IAD-A2557991 p 42 N93-14648 Behavioral effects of high peak power microwave pulses: Head exposure at 1.3 GHz p 120 N93-17985 LAD-A2581361 Mechanisms of microwave induced damage in biologic materials [AD-A2644151 p 358 N93-32035 MIDAIR COLLISIONS The influence of flight experience on midair collision risk p 180 A93-28707 perception MIDDLE EAR Subjective reactions and objective assessment of the auditory and ventilatory functions of the middle ear during changes in atmospheric pressure p 45 A93-15174 MILITARY AIRCRAFT Human factors in design of military aircrafts' oxygen p 60 A93-14222 supply equipment USAF/USN fixed wing night vision - The mission p 227 A93-30055 Color helmet display for the tactical environment - The p 227 A93-30058 pilot's chromatic perspective Military aircrew head support system p 231 A93-31944

The influence of military low-altitude flight noise on the inner ear of the guinea pig. II - Scanning electron micrographs A93-49556 MILITARY AVIATION

The pigmentary dispersion disorder in USAF aviators p 87 A93-18033

Ethical concerns in the practice of military aviation p 89 A93-18045 medicine Prospective assessment of stereoscopic visual status and USAF pilot training attrition p 116 A93-24039 Prevalence of corrective lens wear in Royal Australian Air Force flight crews p 289 A93-41173

The efficacy of biographical inventory data in predicting early attrition in naval aviation officer candidate training I AD-A258025 I p 131 N93-17919 Aviation medicine research: A historical review

I AD-A2581981 p 121 N93-18217

MILITARY HELICOPTERS

Effects of 2 mg and 4 mg atropine sulfate on the performance of U.S. Army helicopter pilots

p 7 A93-10326 Heat strain during at-sea helicopter operations and the effect of passive microclimate cooling p 7 A93-10330 Documentation of activity and rest of a U.S. National Guard attack helicopter battation p 9 A93-10338 Army cockpit delethalization program

p 61 A93-15419 Helmet-mounted display for the night attack mission p 228 A93-30059

Visual illusions and other effects with night vision p 230 A93-30072 Helmet Mounted Display symbology integration research p 263 A93-35914

An evaluation of crew coordination and performance during a simulated UH-60 helicopter mission LAD-A2549841 p 35 N93-12509

Evaluation of Night Vision Goggles (NVG) for maritime search and rescue

[AD-A257704] p 107 N93-17697

MILITARY OPERATIONS

Heat strain during at-sea helicopter operations and the effect of passive microclimate cooling p 7 A93-10330 Advanced displays for military operations

p 28 A93-13350 [AIAA PAPER 92-4243] Mishap trends and cause factors in naval aviation - A review of Naval Safety Center data, 1986-90

p 405 A93-55166

DoD space radiation concerns [AD-A253135] p 13 N93-10613 Relating flying hours to aircrew performance: Evidence for attack and transport missions

p 25 N93-10719 [AD-A253988] Mechanisms of immune failure in burn injury

p 15 N93-11285 AIDS/HIV in the US Military p 16 N93-11291

Estimates of Human Immunodeficiency Virus (HIV) incidence and trends in the US Air Force p 16 N93-11292

Sustaining health and performance in the cold Environmental medicine guidance for cold-weather operation

IAD-A2543281 o 23 N93-12145 Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored

IAD-A2552241 p 51 N93-13941 Thermal stress in US Air Force operations

IAD-A2557851 p 51 N93-14027 Walter Reed Army Institute of Research biannual report

[AD-A255630] The effect of combat on the work/rest schedules and fatigue of A-6 and F-14 aviators during Operation Desert

Shield/Storm LAD-A2581461 n 122 N93-18292 The effect of combat on aircrew subjective readiness

and LSO grades during Operation Desert Shield/Storm LAD-A2581561 p 132 N93-18294 A study of illness related lost time in transport aircraft crewmembers

p 132 N93-18298 LAD-A2581931

Validation of two temperature pill telemetry systems in humans during moderate and strenuous exercise p 124 N93-19072 [AD-A259068]

Sustaining health and performance in the cold: A pocket guide to environmental medicine aspects of cold-weather operations

p 218 N93-24021 AD-A259625 Medical aspects of cold weather operations: A handbook for medical officers

p 336 N93-30588 [AD-A263559] C-141 aircrew sleep and fatigue during the Persian Gulf p 371 N93-32265

Digital flight data as a measure of pilot performance associated with fatigue from continuous operations during the Persian Gulf conflict p 371 N93-32268

MILITARY PSYCHOLOGY

Psychiatric diagnoses aboard an aircraft carrier

p 57 A93-16162 Relating cognitive function military aviator to performance in early HIV infection p 17 N93-11298 Neuropsychiatric morbidity in early HIV disease: Implications for military occupational function

p 18 N93-11299 MILITARY TECHNOLOGY

Looks can kill --- helmet mounted displays, military p 231 A93-31626 avionics A systems approach to the advanced aircraft man-machine interface p 146 N93-19776 Cognitive interface considerations for intelligent p 319 N93-28865 cockpits

System automation and pilot-vehicle-interface for unconstrained low-altitude night attack

p 320 N93-28867 A study of the effects of lens focal length on remote driver performance [AD-A263191]

TeleOperator/telePresence System (TOPS) Concept Verification Model (CVM) development

p 367 N93-32112

MILLIMETER WAVES

The effect of low-intensity electromagnetic millimeter-wave radiation on the rat cardiovascular p 2 A93-12861 system

MINERAL METABOLISM

Protection of Acanthopanax senticosus suspension-induced bone loss in rats p 2 A93-13528 Atrial natriuretic peptide degradation by CPA47 cells -Evidence for a divalent cation-independent cell-surface p 155 A93-28726 proteolytic activity **MINERALS**

Mineral theories of the origin of life and an iron sulfide p 74 A93-18009 example Active synthetic soil

[NASA-CASE-MSC-21954-1-NP] p 114 N93-19054

MINIATURIZATION

Space biology initiative program definition review. Trade

study 3: Hardware miniaturization versus cost p 208 N93-23080

MINORITIES

Diversity in biological research [NSF-92-19]

p 42 N93-13700

MIR SPACE STATION

The rhythm of heart activity and arrhythmia in long-term p 119 A93-25652 space flights Functional state of the cardiovascular system of the cosmonauts of the sixth primary mission on the Mir p 249 A93-35238

The Inkubator-2 complex for studying the embryonic and postembryonic development of birds in conditions of weightlessness p 241 A93-35242 Manipulator system for module redocking on the Mir

Orbital Complex p 263 A93-35534 Main medical results of extended flights on Space

Station Mir in 1986-1990 p 386 A93-52401 The first 'space' vegetables have been grown in the 'SVET' greenhouse using controlled environmental conditions p 394 A93-52410

Mir 1992 operations and crew training

p 226 N93-24352

Physiological experiments within the project AustroMir p 219 N93-24354

Eye-head-arm coordination and spinal reflexes in weightlessness p 236 N93-24362

Development and implementation of the MotoMir experiment on the Mir Space Station p 220 N93-24363

Japanese treefrog experiment onboard the Space

Station Mir p 210 N93-24402

MISSILE CONTROL Pilot decision aiding for weapon delivery: A novel

approach to fire control cueing using parallel computing p 317 N93-28853

MISSION PLANNING

Human support for Mars exploration - Issues and p 27 A93-12077 approaches

EVA operational guidelines and considerations for use during the Space Station Freedom design review p 345 A93-42119 Space Station Freedom payload operations in the 21st

century p 350 A93-45436

Pre-adaptation to shiftwork in space

p 386 A93-52403 The real world and lunar base activation scenarios

p 68 N93-14014

Development of a prototype interactive learning system using multi-media technology for mission independent p 100 N93-17310 training program A systems approach to the advanced aircraft

man-machine interface p 146 N93-19776 SUBJECT INDEX MOTION PERCEPTION

Manned lunar surface site: Conceptual study on Proceedings of a Workshop on Molecular Nuclear Ecological-morphological features of the growth and pressurized lunar surface operation rove distribution of cultures of unicellular organisms in a Medicine p 316 N93-28032 IDE93-0108281 p 285 N93-28835 gravitational field p 241 A93-35248 The Gordon Research Conference on Pineal Cell p 316 N93-28034 Lunar surface experiment system Revision of the Wind River faunas, early Eocene of Pilot intent and error recognition as part of a knowledge Biology central Wyoming. IX - The oldest known hystricomorphous I AD-A 264840 I p 337 N93-30904 based cockpit assistant p 318 N93-28855 rodent (Mammalia: Rodentia) p 328 A93-44903 MITOCHONDRIA MOLECULAR CLOUDS Hair cell tufts and afferent innervation of the bullfrog Laboratory simulation of organic grain mantles The effects of cephalad body fluid redistribution on the crista ampullaris p 329 A93-44931 p 268 A93-36554 ultrastructure of the vestibular apparatus of guinea pig Analysis of retinal function following laser irradiation p 4 A93-13717 p 52 N93-14163 MOLECULAR STRUCTURE AD-A2556491 Muscle mitochondrial density after exhaustive exercise Terrestrial and extraterrestrial sources of molecular Ground testing of bioconvective variables such as p 110 A93-17986 in dogs - Prolonged restricted activity and retraining homochirality morphological characterizations and mechanisms which p 242 A93-35498 p 82 N93-17303 Structure of a molecular chaperone from a thermophilic egulate macroscopic patterns Metabolic factors influencing myocardial recovery from archaebacterium n 151 A93-25821 MORTAL ITY Structure of a human monoclonal antibody Fab fragment Longitudinal study of astronaut health - Mortality in the LAD-A2523761 p 14 N93-10796 against gp41 of human immunodeficiency virus type years 1959-1991 p 216 A93-32783 p 153 A93-28698 MITOSIS Mortality experience of cockpit crewmembers from Atomic structure and chemistry of human serum Heterogeneity of changes in lymphoproliferative ability p 385 A93-52306 Japan Airlines MOBILE COMMUNICATION SYSTEMS
Ground according p 200 A93-31628 albumin Communicable diseases: A major burden of morbidity Structure of a human monoclonal antibody Fab fragment and mortality p 18 N93-11300 Ground operation of the mobile servicing system on against gp41 of human immunodeficiency virus type MOTION p 190 A93-29107 p 203 A93-32850 Space Station Freedom The neurochemical and neuropharmacological basis of MODELS The pineal gland - Its possible roles in human motion sickness p 204 A93-33036 Hybrid 2 and hybrid 3 dummy neck properties for reproduction INASA-CR-1909571 p 50 N93-13061 computer modeling Some proteins keep 'living fossil' pre-sequence MOTION PERCEPTION p 244 A93-36562 p 66 N93-13874 Anisotropy in an ambiguous kinetic depth effect Development and enhancement of a model o Catalytic accretion of thermal heterocomplex molecules p 55 A93-14097 from amino acids in aqueous milieu p 354 A93-43793 performance and decision making under stress in a real Human speed perception is contrast dependent life setting Relationship between G + C in silent sites of codons p 55 A93-14119 [AD-A255699] and amino acid composition of human proteins p 99 N93-16111 Human vestibular function and weightlessness p 358 A93-47099 Model-based reasoning applied to cockpit warning p 84 A93-17531 systems p 147 N93-19778 Ribozymes - A distinct class of metalloenzymes Factors influencing perceived angular velocity p 97 Á93-17800 MODERATORS n 398 A93-54163 Meta-analysis of integrity tests: A critical examination Isolation of new ribozymes from a large pool of random Influence of animation on dynamical judgments p 400 A93-56548 p 98 A93-20275 of validity generalization and moderator variables [AD-A254681] MOLECULAR WEIGHT The perception of heading during eye movements p 27 N93-12225 Purification and properties of an ATPase from Sulfolobus MODULARITY p 99 A93-20692 p 201 A93-32115 Illusions of visual-target motion caused by electrical estibular stimuli p 119 A93-25653 Space biology initiative program definition review. Trade solfataricus study 4: Design modularity and commonality Liquid water and the origin of life p 268 A93-36552 restibular stimuli MOLECULES p 208 N93-23071 OPTOVERT: An AUSTROMIR 91 experiment -Radiation damage to DNA MODULATION Orientational effects from optokinetic stimulation p 5 N93-10834 IDE92-0157601 Auditory spectro-temporal pattern analysis p 159 A93-26571 [AD-A264691] The Moon: Biogenic elements p 113 N93-18548 p 361 N93-31981 Human speed perception is contrast dependent MODULATION TRANSFER FUNCTION MOLLUSKS p 174 A93-26950 Low-cost monochrome CRT helmet display Geography of end-Cretaceous marine hivalve Spatial orientation and dynamics in virtual reality systems p 273 A93-41075 p 228 A93-30061 Lessons from flight simulation p 178 A93-27185 Comparison of CRT display measurement techniques MOMENTS OF INERTIA Influence of animation on dynamical judgments An automated method for determining mass properties p 229 A93-30067 n 180 A93-28692 AD-A259924 Quantitative Helmet Mounted Display system image p 236 N93-24441 Gravitoinertial force level affects the appreciation of limb p 169 A93-28744 p 229 MONITORS position during muscle vibration Methodology for ergonomic tests of the information Antagonistic otolith-visual units in cat vestibular nuclei MODULES p 101 A93-18530 Space biology initiative program definition review. Trade display on monitor indicators p 199 A93-30511 study 6: Space Station Freedom/spacelab modules New technologies for in-flight pasteless bioelectrodes Effects of visually induced self-motion perception compatibility p 289 A93-41174 (vection) on upright standing posture p 209 N93-23081 p 214 A93-31531 Measurement of free and dissolved gas content of water MOISTURE CONTENT Temporal Frequency Spectrum for describing and samples on Space Station Freedom [SAE PAPER 921267] p 300 A93-41437 Dew point analysis for Space Station Freedom p 232 A93-33250 modeling motion perception p 296 A93-41401 ISAE PAPER 9212271 long-term weightlessness Test and evaluation report of the Physio Control p 279 A93-39725 Development of physical and mathematical models for circularyection Defibrillator/Monitor, Model LifePak(tm) 6s the Porous Ceramic Tube Plant Nutrification System Perceptual bias for forward-facing motion p 52 N93-14103 [AD-A255691] p 339 A93-44940 (PCTPNS) Measuring hearing protection device performance using INASA-TM-1075511 p 4 N93-10085 Perceptual scaling of whole-body low frequency linear db-3100 sound the metrosonics level analyze p 379 A93-49225 oscillatory motion Resource capture by single leaves (dosimeter) IDE92-015847 p 5 N93-10461 induced motion virtual ÎAD-A2608521 p 265 N93-25787 p 381 A93-49401 MOISTURE METERS environments Daily exercise routines p 360 N93-31455 Moistening of the substrate in microgravity Cybersickness - Perception of self-motion in virtual MONKEYS p 381 A93-49402 A93-21906 p 135 environments Freeze-dried human red blood cells MOLDS Spatial orientation, adaptation, and motion sickness in p 14 N93-11193 Relative resistance of biofilms and planktonic cells of IAD-A2532951 real and virtual environments p 382 A93-49403 Extrathalmic modulation of cortical function common molds and yeasts to antimicrobials Mental rotation - A key to mitigation of motion sickness [SAE PAPER 921212] p 53 N93-14782 A93-49404 p 273 A93-41388 in the virtual environments? p 387 A literature survey for virtual environments - Military flight MOLECULAR BIOLOGY Conversion of temporal correlations between stimuli to Studies towards the crystallization of the rod visual spatial correlations between attractors simulator visual systems and simulator sickness p 387 A93-49406 IPREPRINT-8561 p 96 N93-16962 pigment rhodopsin p 1 A93-11150 Flavoproteins as natural prototypes of molecular Multistage integration model for human egomotion Behavioral effects of high peak power microwave pulses: electronic devices with photocontrolled conductivity Head exposure at 1.3 GHz perception [AIAA PAPER 93-3564] p 406 A93-52664 p 1 A93-11199 p 120 N93-17985 [AD-A2581361 False cue detection thresholds in flight simulation Molecular mechanisms of stress --- of astronauts during Effects of space radiation on humoral and cellular p 407 A93-52674 various phases of their lunar and Martian travels I AIAA PAPER 93-3578 I immunity in rhesus monkeys p 49 A93-17443 Role of the vestibular end organs in experimental motion p 246 N93-26259 [AD-A261808] p 399 A93-55933 sickness - A primate model Molecular cytogenetics: A novel approach for measuring MONTE CARLO METHOD chromosome translocations in individuals years after The accelerative stimulus for motion sickness A computer model to determine the primary contributors exposure to low levels of ionizing radiation p 410 A93-55938 p 5 N93-10974 to relative radiation dose received by astronauts p 403 A93-55944 Simulator sickness [DE92-018066] p 43 A93-13935 Motion and human performance A93-55949 Radiation physics, biophysics, and radiation biology p 406 IDE92-0136731 p 6 N93-12266 Visual psychophysics of egomotion Effects of caffeine on mental performance and mood p 26 N93-11488 IAD-A2483491 Molecular biology anaerobic p 372 N93-32269 Implications for aircrew members Visual perception of structure from motion biodegradation [AD-A255213] MOON p 26 N93-11503 p 42 N93-13863 [AD-A253235] p 113 N93-18548 The Moon: Biogenic elements The detection of lateral motion by US Navy jet pilots
ND-A258115| p 120 N93-17896 Mathematics and biology: The interface, challenges and MORALE opportunities IAD-A2581151 Assessment of morale in Turkish Air Force pilots with IDE92-0412071 p 82 N93-17359 Role of orientation reference selection in motion two clinical psychological tests p 133 N93-19660 sickness The solar system: Importance of research to the

MORPHOLOGY

The earliest fossil evidence for sexual dimorphism in

p 152 A93-27775

p 113 N93-18547

p 157 N93-20848

biological sciences

[RUU-CS-92-08]

Two strikes against perfect phylogeny

p 124 N93-18596

p 141 N93-19104

[NASA-CR-191912]

INASA-TM-103898 |

Effect of contrast on human speed perception

MOTION SICKNESS SUBJECT INDEX

MUII TIMEDIA

earth-based applications

MULTISENSOR APPLICATIONS

IOUEL-1941/921

MULTIPROCESSING (COMPUTERS)

A physician's workstation designed for NASA and

A modular head/eye platform for real-time reactive

p 189 A93-28695

p 320 N93-28897

Retinal modelina: Segmenting motion from spatio-temporal inputs using neural networks IAD-A2588541 p 125 N93-19369 Visual processing of object velocity and acceleration [AD-A261048] p 265 N93-25778 Neural basis of motion perception IAD-A2614521 p 260 N93-26349 The cube rotation test: A computer generated process for acquisition of mental spatial manipulator capability p 344 N93-31237 Spacelab 1 MOTION SICKNESS Assessing for preflight predictors of airsickness p 8 A93-10335 Electronystagmography and audio potentials in space p 9 A93-11675 Beta-endorphin and arginine vasopressin following stressful sensory stimuli in man p 47 A93-16158 The Canadian forces airsickness rehabilitation program, 1981-1991 p 89 A93-18042 Physical fitness as a criterion of readiness for p 98 A93-18412 spaceflights EEG changes in man during motion sickness induced by parallel swing p 92 A93-19996 A four-pole electric swing and its application to the research on vestibular function p 103 A93-19999 Effects of scopolamine on autonomic profiles underlying motion sickness susceptibility p 116 A93-2403 Spectral analysis of the electroencephalographic response to motion sickness p 116 A93-24041 Changes of cAMP and cGMP content in plasma and urine before and after parallel swing stimulation sickness p 213 A93-30435 Spontaneous and evoked activity of neurons in the parietal associative cortex of cats during motion sickness p 239 A93-35211 Central neurophysiological and neurochemical vomiting mechanisms (Review of the literature) p 240 A93-35232 8-OH-DPAT does not interfere with habituation to motion-induced emesis in cats p 271 A93-38451 Neuropharmacology of motion sickness and emesis p 271 A93-39711 A review Motion sickness induced by sinusoidal linear acceleration in rats p 272 A93-39712 Xylazine emesis, vohimbine and motion sickness susceptibility in the cat p 324 A93-42450 Habituation to feline motion sickness p 328 A93-44900 Understanding microwaves [ISBN 0-471-57567-4] p 357 A93-46300 Changes in the dark focus of accommodation associated with simulator sickness p 379 A93-49222 Perceptual scaling of whole-body low frequency linear scillatory motion p 379 A93-49225 oscillatory motion Profile analysis of simulator sickness symptoms Application to virtual environment systems . therapy p 381 A93-49399 Motion sickness and oculomotor systems in virtual environments p 381 A93-49400 Virtually induced motion sickness virtua p 381 A93-49401 environments Cybersickness - Perception of self-motion in virtual p 381 A93-49402 Spatial orientation, adaptation, and motion sickness in p 382 A93-49403 real and virtual environments Mental rotation - A key to mitigation of motion sickness in the virtual environments? p 387 A93-49404 Will simulation sickness slow down the diffusion of virtual environment technology? nvironment technology? p 391 A93-49405 A literature survey for virtual environments - Military flight simulator visual systems and simulator sickness p 387 A93-49406 Salivary total protein and experimental Coriolis sickness p 383 A93-49573 Dynamic analysis of ocular torsion in parabolic flight p 386 A93-52405 using video-oculography Phenytoin as a countermeasure for motion sickness in NASA maritime operations p 401 A93-55162 Review of the space medico-engineering research in spaces China [AAS PAPER 91-623] p 402 A93-55802 Motion and space sickness p 402 A93-55929 HSBN 0-8493-4703-31 MOTIVATION p 399 A93-55930 Motion sickness and evolution The central nervous connections involved in motion p 399 A93-55931 induced emesis Neurophysiology of motion sickness p 399 A93-55932 Role of the vestibular end organs in experimental motion p 399 A93-55933 sickness - A primate model MOUNTAINS Neurochemistry and pharmacology of motion sickness Field trial of caffeine on physical performance at altitude: p 399 A93-55934 An attempt to overcome the challenge in nonhuman species Endocrinology of space/motion sickne [AD-A264260]

p 403 A93-55935

p 399 A93-55936

MULTIENGINE VEHICLES

ICAP-6011

Mandatory multi-engined training syllabus

Investigating motion sickness using the conditioned taste aversion paradiom p 400 A93-55937 The accelerative stimulus for motion sickness p 410 A93-55938 Physiology of motion sickness symptoms p 403 A93-55939 Prediction of motion sickness susceptibility p 403 A93-55940 Space motion sickness monitoring experiment p 403 A93-55941 Adaptation to the simulated stimulus rearrangement of p 403 A93-55942 weightlessness Statistical prediction of space motion sickness p 403 A93-55943 p 403 A93-55944 Simulator sickness Autogenic-feedback training - A treatment for motion p 404 A93-55946 and space sickness Adaptation to nauseogenic motion stimuli and its application in the treatment of airsickness p 404 A93-55947 Motion sickness susceptibility and behavior p 405 A93-55948 p 406 A93-55949 Motion and human performance The neurochemical and neuropharmacological basis of INASA-CR-1909571 n 50 N93-13061 Adaptation to transient postural perturbations p 105 N93-16699 [NASA-CR-190959] Role of orientation reference selection in motion p 124 N93-18596 [NASA-CR-191912] A toposcopic investigation of brain electrical activity induced by motion sickness p 124 N93-18952 IAD-A2590241 A demonstration of motion base design alternatives for the National Advanced Driving Simulator p 236 N93-24490 INASA-TM-1038811 Autonomic physiological data associated with simulator INASA-CR-1776091 p 222 N93-24738 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility NASA-CR-193304 p 363 N93-32364 MOTION SICKNESS DRUGS Effects of antimotion sickness drug mixture B on ultrastructures of cerebral and cerebellar cortexes in p 10 A93-13704 suspended rabbits First intramuscular administration in the U.S. space program --- of motion sickness drugs p 84 A93-17534 New pharmacologic approaches to the prevention of space/motion sickness p 85 A93-17538 Computerized task battery assessment of cognitive and performance effects of acute phenytoin motion sickness p 211 A93-30278 Treatment efficacy of intramuscular promethazine for p 212 A93-30283 Space Motion Sickness Idaverine, an M2- vs. M3-selective muscarinic antagonist, does not prevent motion sickness in cats p 327 A93-44878 Applied chemical engineering thermodynamics p 357 A93-46075 IISBN 0-387-54759-21 Understanding microwaves HSBN 0-471-57567-41 p 357 A93-46300 Comparison of treatment strategies for space motion p 386 A93-52402 Phenytoin as a countermeasure for motion sickness in NASA maritime operations p 401 A93-55162 Motion and space sickness p 402 A93-55929 IISBN 0-8493-4703-31 Pharmacological countermeasur res against motion p 404 A93-55945 MOTION SIMULATION Temporal Frequency Spectrum for describing and modeling motion perception n 232 A93-33250 Visualization techniques for analyzing control of human movement: Affine mappings between multi-dimensional p 353 N93-30204 MOTION SIMULATORS A four-pole electric swing and its application to the p 103 A93-19999 research on vestibular function Assessment of morale in Turkish Air Force pilots with p 133 N93-19660 two clinical psychological tests MOTOR VEHICLES A heat transfer analysis of a mobile vehicle radiation-shielded operator compartment p 264 N93-25318 IDE93-0074281

p 337 N93-30894

p 363 N93-31729

Fusing human and machine skills for remote robotic p 137 A93-24994 operations Proposed evaluation framework for assessing operator performance with multisensor displays n 232 A93-33444 MULTIVARIATE STATISTICAL ANALYSIS A method of multivariate analysis of data in the study of the effects of space flight factors on the rat brain neuron p 155 A93-28727 structure G-load effects and efficient acoustic parameters for p 146 N93-19775 robust speaker recognition MURCHISON METEORITE The fate or organic matter during planetary accretion Preliminary studies of the organic chemistry of experimentally shocked Murchison meteorite p 110 A93-17984 Comment on 'Summary and implications of reported amino acid concentrations in the Murchison meteorite' by E. L. Shock and M. D. Schulte p 412 A93-53294 MUSCLES Effects of vitamin D and phosphorus level in diet on bone, skeletal muscle and kidney in suspended rats p 77 A93-19994 Regional changes in muscle mass following 17 weeks p 93 A93-20039 Flight helmet weight, + Gz forces, and neck muscle p 136 A93-24046 strain Skeletal muscle responses to unloading with special reference to man p 166 A93-28718 Ultrastructural and biochemical studies on muscle atrophy induced by suspension and suspension with enervation in lower limbs of rats p 200 A93-31530 Computer-aided mechanogenesis of skeletal muscle denervation in lower limbs of rats organs from single cells in vitro p 205 A93-33045 Validation of the use of the helium-neon laser in the medical rehabilitation of patients with atrophy p 248 A93-35228 Mapping of electrical muscle stimulation using MRI p 279 A93-40549 Myosin and troponin changes in rat soleus muscle after p 273 A93-41124 hindlimb suspension Intermittent cold exposure causes a muscle-specific shift in the fiber type composition in rats p 378 A93-52618 A prospective evaluation of stress fractures/overuse injuries in a population of West Point cadets IAD-A2524271 p 13 N93-10709 Establishing laboratory standards for biological flight experiments p 40 N93-12901 [NASA-CR-184402] Training, muscle fatigue and stress fractures IAD-A255277] p 54 N93-15006 Exercise during long term exposure to space: Value of p 82 N93-16807 exercise during space exploration Control system and method for prosthetic devices p 106 N93-17087 [NASA-CASE-MSC-21941-1] Design of a resistive exercise device for use on the Space Shuttle INASA-CR-1920791 p 108 N93-17805 Muscle glycogen, fiber type, aerobic fitness, and anaerobic capacity of West Coast US Navy Sea-Air-Land personnel (SEALs) IAD-A2583641 p 121 N93-18209 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis p 222 N93-24763 INASA-CR-193040 I Initial experiments with a myoelectric-based muscle sensor IDE92-0160341 p 237 N93-25099 Helmeted head and neck dynamics under whole-body p 264 N93-25531 Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism p 282 N93-27102 [NASA-CR-193041] Intracellular targeting of the Yersinia YopE cytotoxin in mammalian cells induces actin microfilament disruption [FOA-B-40420-4.4] p 275 N93-27989 **MUSCULAR FATIGUE** Adaptation of skeletal muscles and physical work capacity in a weightless environment p 38 A93-15527 An analysis of the respiratory muscle fatigue under resistive loading when breathing gas mixtures containing different amounts of oxygen p 76 A93-18299 Effects of fatique and heat stress on vigilance of workers p 177 A93-27173 in protective clothing

Animal models in motion sickness research

SUBJECT INDEX Development and implementation of the MotoMir experiment on the Mir Space Station reference to man p 220 N93-24363 Sudden loading and fatigue effects on the human environments spine [PB93-167526] p 286 N93-29199 MUSCULAR FUNCTION atrophy during a 4-day spaceflight Magnetic resonance imaging and electromyography as indexes of muscle function p 44 A93-14975 Electromyographic activity while performing the anti-G straining maneuver during high sustained acceleration Control of breathing under conditions of attered atmospheric density during muscular work p 89 A93-18288 Increased plasma O2 solubility improves O2 uptake of in situ dog muscle working maximally p 111 A93-21684 p 327 A93-44184 Effect of hindlimb unweighting on single soleus fiber Gravitoinertial force level affects the appreciation of limb position during muscle vibration p 169 A93-28744 Histochemical and contractile responses of rat medial gastrocnemius to 2 weeks of complete disuse p 157 A93-28752 Distinguishing unloading- versus reloading-induced NIH and NASA future directions nanges in rat soleus muscle p 157 A93-28763 Muscle mitochondrial density after exhaustive exercise changes in rat soleus muscle in dogs - Prolonged restricted activity and retraining p 242 A93-35498 Quantitative EMG analysis in soleus and plantaris during fibers from hindlimb suspended muscle in rats hindlimb suspension and recovery p 326 A93-44176 Muscle glucose uptake in the rat after suspension with single hindlimb weight bearing in unweighted rat skeletal muscle p 326 A93-44178 Bone loss and human adaptation to lunar gravity p 51 N93-14002 Activity-induced regulation of myosin isoform distribution - Comparison of two contractile activity programs p 326 A93-44183 Space Shuttle Electromyographic patterns of the thermoregulatory |NASA-CR-192079| activity of motor units during cooling of the organism p 360 A93-46968 NASA-TM-108039| Functional adaptation of different rat skeletal muscles p 377 A93-49575 to weightlessness Intermittent cold exposure causes a muscle-specific shift synthesis in the fiber type composition in rats p 378 A93-52618 Effect of water immersion on muscle sympathetic nerve NASA-CR-193040) response during static muscle contraction p 402 A93-55328 Shortening velocity and calcium sensitivity of single INASA-CR-1930411 fibers from hindlimb suspended muscle in rats p 398 A93-55329 Initial experiments with a myoelectric-based muscle muscle growth INASA-ČR-193023 I sensor p 237 N93-25099 Growth factor involvement in tension-induced skeletal environment muscle growth MUSIC [NASA-CR-193023] p 282 N93-27113 Visualization techniques for analyzing control of human [AD-A255748] movement: Affine mappings between multi-dimensional MUTATIONS p 353 N93-30204 Protein requirements in hypoxia or hypokinesia p 368 N93-32244 MUSCULAR STRENGTH mutagenesis on STS-42 Contractile properties of the calf triceps muscle in I NASA-TM-4383 I humans exposed to simulated weightlessness p 45 A93-15168 in vitro Eccentric exercise training as a countermeasure to I DE93-012269 I non-weight-bearing soleus muscle atrophy p 78 A93-20033 suprachiasmatic nuclei Effects of insulin and exercise on rat hindlimb muscles [AD-A264553]

after simulated microgravity p 78 A93-20036 An improved simulation based biomechanical model to estimate static muscle loadings p 160 A93-27172

Magnetic Resonance Imaging evaluation of lower limb muscles during bed rest - A microgravity simulation model p 212 A93-30280 A review of muscle atrophy in microgravity and during

p 213 A93-30771 prolonged bed rest Aminohydroxybutane bisphosphonate and clenbuterol prevent bone changes and retard muscle atrophy respectively in tail-suspended rats p 271 A93-39703 p 271 A93-39703

MUSCULAR TONUS

Myosin heavy chain composition in the rat diaphragm Effect of age and exercise training p 37 A93-14970
Contractile properties of the calf triceps muscle in humans exposed to simulated weightlessness

p 45 A93-15168 Gravitoinertial force level affects the appreciation of limb position during muscle vibration p 169 A93-28744 Effect of adaptation to hypoxia on the contractile activity of fast and slow muscles in the rat p 324 A93-43035 MUSCULOSKELETAL SYSTEM

Adaptation of skeletal muscles and physical work capacity in a weightless environment p 38 A93-15527 Effect of prolonged antiorthostatic bed rest hypokinesia on functional properties of the neuromuscular system in n 116 A93-23151 humans

An improved simulation based biomechanical model to p 160 A93-27172 estimate static muscle loadings

Skeletal muscle responses to unloading with special eference to man p 166 A93-28718 Predicting skeletal adaptation altered gravity p 213 A93-30772 Mechanically induced alterations in cultured skeletal p 202 A93-32749 Absence of a growth hormone effect on rat soleus p 272 A93-40548 Effect of adaptation to hypoxia on the contractile activity of fast and slow muscles in the rat p 324 A93-43035 Spaceflight on STS-48 and earth-based unweighting produce similar effects on skeletal muscle of young rats p 326 A93-44179

Activity-induced regulation of myosin isoform distribution - Comparison of two contractile activity programs

p 326 A93-44183 Interaction of various mechanical activity models in regulation of myosin heavy chain isoform expression

maximal shortening velocity and ATPase activity

p 377 A93-49294 Effects of spaceflight on the musculoskeletal system p 383 A93-49568 Effect of water immersion on muscle sympathetic nerve response during static muscle contraction

p 402 A93-55328 Shortening velocity and calcium sensitivity of single

p 398 A93-55329 Effect of insulin-like factors on glucose transport activity p 399 A93-55458

Design of a resistive exercise device for use on the

p 108 N93-17805 Musculoskeletal discipline science plan

p 128 N93-19892 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin

p 222 N93-24763 Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism

p 282 N93-27102 Growth factor involvement in tension-induced skeletal

p 282 N93-27113 The physiological limitations of man in the high G p 319 N93-28861

Demodulation processes in auditory perception p 54 N93-15053

Selection of a ribozyme that functions as a superior template in a self-copying reaction p 111 A93-22053

Katz model prediction of Caenorhabditis elegans p 50 N93-13023

Comparative mutagenesis of human cells in vivo and p 276 N93-28651

Control and circadian behavior by transplanted

p 335 N93-30382

MYOCARDIAL INFARCTION

The adrenalin/noradrenalin and the alpha/beta adrenoreceptor correlations in the myocardium and the adrenergic chronotropic and ionotropic reactions under extreme conditions and during adaptation

p 1 A93-10125 Myocardial infarction occurring at the conclusion of centrifuge training in a 37-year-old aviator p 89 A93-18044

MYOCARDIUM

Cardiac bioelectric activity in healthy men during a 370-day head-down tilt experiment p 247 A93-35208 Accumulation of calcium ions in the myocardial sarcoplasmic reticulum of restrained rats exposed to a p 240 A93-35225 pulsed electromagnetic field Metabolic factors influencing myocardial recovery from acidosis (CiC3) LAD-A2523761 p 14 N93-10796

MYOELECTRICITY

Cardiac bioelectric activity in healthy men during a 370-day head-down tilt experiment p 247 A93-35208 Mapping of electrical muscle stimulation using MRI p 279 A93-40549

Quantitative EMG analysis in soleus and plantaris during p 326 A93-44176

hindlimb suspension and recovery Control system and method for prosthetic devices [NASA-CAŚE-MSC-21941-1] p 106 N93-17087

MYOGL ORIN

Myosin and troponin changes in rat soleus muscle after p 273 A93-41124 hindlimb suspension Activity-induced regulation of myosin isoform distribution

Comparison of two contractile activity programs p 326 A93-44183

NAP-OF-THE-EARTH NAVIGATION

Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p 311 N93-27177

NAPHTHALENE

The origin of the polycyclic aromatic hydrocarbons in p 110 A93-17983 meteorites

NARCOSIS

Subjective and behavioral effects associated with repeated exposure to narcosis p 7 A93-10327 Reduced voluntary non-visual suppression of the vestibulo-ocular reflex gain during nitrous oxide narcosis p 7 A93-10329

NARCOTICS

The role of central monoaminergic systems in arousal and selective attention IAD-A2585001 p 122 N93-18264

NASA PROGRAMS

Teleoperation to robotics at Langley Research Center p 101 A93-18569 Overview of NASA's 1991 Life Support Systems Analysis

Workshop [SAE PAPER 921118] p 290 A93-41310 Preliminary design of a radiator shading device for a lunar outnost [NASA-CR-192016] p 139 N93-18019 Space radiation health program plan p 123 N93-18375 [NASA-TM-108036]

Life sciences recruitment objectives p 205 N93-22623 NASA SPACE PROGRAMS

Space telerobotic research and applications at Space Systems/Loral (AAS PAPER 91-046) p 62 A93-15588 NASA plans and opportunities --- space flight activities throughout the 1990s p 79 A93-20652 Fluorocarbon 113 exposure and cardiac dysrhythmias mong aerospace workers p 168 A93-28739
Flight Telerobotic Servicer legacy p 190 A93-29106 among aerospace workers NASA's telerobotics research program

p 263 A93-35566 Human life support during interplanetary travel and domicile. VI - Generic modular flow schematic for hybrid physical/chemical-biological life support systems

p 290 A93-41312 ISAE PAPER 9211201 NASA's manned space flight program p 402 A93-55805 [AAS PAPER 91-626] p 4 NASA Space Human Factors Program

p 31 N93-10890 [NASA-TM-108005] Exobiology: The NASA program
NATURAL GAS p 114 N93-18561

Biological conversion of synthesis gas culture development DE92-0012791 p 6 N93-12482 NAUSEA

Salivary total protein and experimental Coriolis

p 383 A93-49573 sickness NAVIGATION A preliminary empirical evaluation of virtual reality as

an instructional medium for visual-spatial tasks p 367 N93-32151

NAVIGATION AIDS

Vision navigator for free-flying robots

p 183 A93-27025 Conspicuity of aids to navigation. Part 1: Temporal patterns for flashing lights p 341 N93-30426 [AD-A264626]

NÄVY

Muscle glycogen, fiber type, aerobic fitness, and anaerobic capacity of West Coast US Navy Sea-Air-Land

personnel (SEALs) AD-A2583641 p 121 N93-18209 The US Navy Healthy Back Program: Effect on back

knowledge among recruits p 121 N93-18210 [AD-A258368]

The effect of combat on aircrew subjective readiness and LSO grades during Operation Desert Shield/Storm p 132 N93-18294 [AD-A258156] Subjective fatigue in A-6, F-14, and F/A-18 aircrews

during operations Desert Shield and Storm [AD-A259243] p 171 p 171 N93-20580

NEAR FIELDS

Specific absorption rate and radiofrequency current-to-ground in human models exposed to near-field p 360 A93-47098 irradiation

NECK (ANATOMY) SUBJECT INDEX

NECK (ANATOMY)

Skin temperature and heat flow of head-neck region under different ambient temperatures p 46 A93-16074 Flight helmet weight, +Gz forces, and neck muscle p 136 A93-24046 Determinants of + Gz-related neck pain - A preliminary p 380 A93-49227 survey Degeneration of cervical intervertebral disks in fighter pilots frequently exposed to high | Gz forces

p 384 A93-52298 Hybrid 2 and hybrid 3 dummy neck properties for computer modeling

p 66 N93-13874 LAD-A2555441 A new instrumentation system for measuring the dynamic response of the human head/neck during impact acceleration p 143 N93-19672

NEGATIVE IONS

Regenerable Microbial Check Valve - Life cycle tests results

ISAE PAPER 9213161 p 303 A93-41478 Inactivation of a model coliphage virus in water by indine

ISAE PAPER 9213611 p 274 A93-41520

NEOPLASMS

Cancer risk assessment with intermittent exposure

p 171 A93-28766 Temporal analysis of the October 1989 proton flare using computerized anatomical models Understanding mechanisms of carcinogenesis using rat tracheal epithelial cells in vitro

IDE92-013510| p 13 N93-10626

NERVES

Ultrastructural and biochemical studies on muscle atrophy induced by suspension and suspension with denervation in lower limbs of rats p 200 A93-31530 JPRS report: Science and technology. Central Eurasia: Life sciences

[JPRS-ULS-92-025] p 244 N93-25405 Primary events in olfactory reception

p 255 N93-25944 IAD-A2605621 Biophysical and biochemical mechanisms in synaptic

transmitter release LAD-A2648291 p 336 N93-30613

An assessment of peripheral nerve damage in the rat non-freezing cold exposure: electrophysiological and histopathological examination p 331 N93-30818 Hydrogen-rated system for in vitro studies at pressure: Operating procedures and emergency procedures

p 336 N93-30882

NERVOUS SYSTEM

Beta-endorphin and arginine vasopressin following stressful sensory stimuli in man p 47 A93-16158 Effect of prolonged antiorthostatic bed rest hypokinesia on functional properties of the neuromuscular system in p 116 A93-23151 humans

Neurology of microgravity and space travel

p 168 A93-28735 Identification of a critical period for motor development p 157 A93-28764 in neonatal rats

Persistent blockade of potassium-evoked serotonin release from rat frontocortical terminals after fluoxetine p 202 A93-32125

Investigation of individual and typological features of an operator's nervous system under different work regimes p 339 A93-43024

Physiological analyses of the afferents controlling brain neurochemical systems

IAD-A2531851 p 14 N93-11146

New techniques for positron emission tomography in the study of human neurological disorders

p 23 N93-11873 Neurochemical control of circadian rhythms

p 50 N93-13116 AD-A255054 Biophysical and biochemical mechanisms in synaptic

transmitter release IAD-A2563401 p 55 N93-15198 The role of central monoaminergic systems in arousal

and selective attention p 122 N93-18264 IAD-A2585001

Neuroscience discipline science plan

INASA-TM-1080411 p 128 N93-19882

Computer based analysis and synthesis of retinal function [AD-A260514] p 221 N93-24420

Biomagnetic localization from transient quasi-static IDE93-0073281 n 253 N93-25186

Multiple neuron recording in the hippocampus of freely moving animals p 330 N93-30594 I AD-A264807 I

Biophysical and biochemical mechanisms in synaptic transmitter release p 336 N93-30613 I AD-A264829 I

NETWORK ANALYSIS

Performance measurement systems: A best practices IAD-A2621801 p 350 N93-29444

Analysis of visual loss from retinal lesions p 336 N93-30494 [AD-A264692]

NEURAL NETS In search of the human touch --- in design of robotic p 102 A93-19256 hands Computer-assisted three-dimensional reconstruction

simulations of vestibular macular p 104 A93-20700 connectivities A comparison of neural network and fuzzy clustering

techniques in segmenting magnetic resonance images of p 214 A93-31267 the brain An introduction to the information processing omponents of the brain

IRSRE-MEMO-43501 p 25 N93-10979 Silicon neuron

p 50 N93-12756 Simulation of excitatory/inhibitory interactions in single auditory neurons

p 50 N93-13252 Neural network retinal model real time implementation p 52 N93-14210 LAD-A2556521 Conversion of temporal correlations between stimuli to

spatial correlations between attractors PREPRINT-856 p 96 N93-16962

Constraints on learning in dynamic synapses p 100 N93-17026 I PREPRINT-8901 Effective neurons and attractor neural networks in cortical environment

PREPRINT-8291 n 82 N93-17214 The cognitive, perceptual, and neural bases of skilled

AD-A2582361 p 130 N93-17820 Electrically modifiable nonvolatile SONOS synapses for electronic neural networks

LAD-A2583181 p 122 N93-18252 Recognition of partially occluded threat objects using p 142 N93-19466 the annealed Hopefield network Analysis and synthesis of adaptive neural elements and

I AD-A259954 I p 219 N93-24247 Physiological indices of mental workload

p 260 N93-26391 Fuzzy neural network methodology applied to medical p 334 N93-29546 diagnosis

An accelerated training method for back propagation networks [NASA-CASE-MSC-21625-1] p 340 N93-29610

Computing with neural maps: Application to perceptual and cognitive function IAD-A2640561 p 341 N93-30033

Analysis of visual loss from retinal lesions p 336 N93-30494 I AD-A264692 I An algorithm for simple and complex feature detection: From retina to primary visual cortex

p 337 N93-30897 1AD-A2643061 Man-machine cooperation in advanced teleoperation p 366 N93-32106

NEUROBLASTS

Results of experiments on the exploration of genetic effect of rocket flight factors with Drosophila melanogaster

NEUROLOGY

Infraslow bioelectric activity of the monkey's brain in the development of the high-pressure neural syndrome p 75 A93-18286

Preclinical cardiovascular and neurological occupation-related pathological symptoms in helicopter p 91 A93-18416

Neurology of microgravity and space travel p 168 A93-28735

Neurobehavioral test in civil aviation flight personnel p 223 A93-30443

On a possible role of carbon dioxide in the genesis of p 200 A93-31190 the hyperbaric neural syndrome Neuropharmacology of motion sickness and emesis p 271 A93-39711 A review Case report - Chronic sub-dural hematoma following

high-speed ejection p 282 A93-41171 Risk assessment and clinical aeromedical p 385 A93-52305 decision-making An introduction to the information processing components of the brain

IRSRE-MEMO-43501 p 25 N93-10979 Physiological analyses of the afferents controlling brain neurochemical systems

[AD-A253185]

Publications of the Space p 14 N93-11146 Physiology and Countermeasures Program, Neuroscience Discipline:

[NASA-CR-4476] p 55 N93-15583 Measurement of behavioral thermoregulation p 172 N93-21046

Effects of 60-Hz electric and magnetic fields on operant and social behavior and on neuroendoctrine system of nonhuman orimates

n 207 N93-22913 I DE93-007677 I Sensory sensitivities and discriminations and their roles in aviation

IAD-A2597421 p 224 N93-23479 Theory of synaptic plasticity in visual cortex

[AD-A260052] p 224 N93-23960 Evoked brain potentials as indicators of a central nervous impairment in a simulated saturation dive to 560 m

IDLR-FB-92-141 p 219 N93-24093 Proceedings of Workshop 1: The Human Brainmap Database

IAD-A2607201 p 258 N93-25654 The role of pyridoxine as a countermeasure for in-flight loss of lean body mass p 255 N93-26068 components of object Neuropsychological

p 259 N93-26347 IAD-A2614491 Secondary injury factors and preventative treatment p 283 N93-27409

NEUROMUSCULAR TRANSMISSION

Effects of unilateral selective hypergravity stimulation p 386 A93-52407

n gait

NEURONS p 1 A93-11198 To the stars with the cytoskeleton?

The response of medullar respiratory neurons to the stimulation of the amygdaloid nuclei under hypoxia p 2 A93-12860

The effect of cortical vestibular area stimulation on the activity of the neurons of lateral vestibular nuclei during p 2 A93-12863 vibration

Normalization of cell responses in cat striate cortex p 154 A93-28700

A method of multivariate analysis of data in the study of the effects of space flight factors on the rat brain neuron structure p 155 A93-28727

Effects of systemic L-tyrosine on dopamine release from rat corpus striatum and nucleus accumbens

p 201 A93-32118 Spontaneous and evoked activity of neurons in the parietal associative cortex of cats during motion sickness p 239 A93-35211

Effect of low-frequency vibration on the activity of dehydrogenases in neurones of the nucleus vestibularis p 242 A93-35670 anterior of rats

Roentgenophosphene as an indicator of the radiation excitability of the central nervous system

p 325 A93-43078 Immunocytochemical localization of atrial natriuretic factor (ANF)-like peptides in the brain and heart of the treefrog Hyla japonica - Effect of weightlessness on the distribution of immunoreactive neurons and cardiocytes

p 377 A93-49561 introduction to the information processing components of the brain

(BSRF-MEMO-4350) p 25 N93-10979 Physiological analyses of the afferents controlling brain

neurochemical systems [AD-A2531851 p 14 N93-11146 Silicon neuron

p 50 N93-12756 [AD-A2550911 Neurochemical control of circadian rhythms

[AD-A255054] p 50 N93-13116 Simulation of excitatory/inhibitory interactions in single auditory neurons

[AD-A2536141 p 50 N93-13252 Extrathalmic modulation of cortical function

p 53 N93-14782 [AD-A255440] Conversion of temporal correlations between stimuli to spatial correlations between attractors

[PREPRINT-856] p 96 N93-16962 Constraints on learning in dynamic synapses

p 100 N93-17026 [PREPRINT-890] Effective neurons and attractor neural networks in cortical environment

[PREPRINT-829] p 82 N93-17214 The role of central monoaminergic systems in arousal

and selective attention p 122 N93-18264 IAD-A2585001

Automated system for analyzing the activity of individual p 173 N93-22163 neurons Theory of synaptic plasticity in visual cortex

p 219 N93-24238 IAD-A2603221 Analysis and synthesis of adaptive neural elements and assamhlias

IAD-A2599541 p 219 N93-24247 Multiple neuron recording in the hippocampus of freely moving animals

p 330 N93-30594 1AD-A2648071 Organization of the human circadian system p 361 N93-32015 IAD-A2646751

NEUROPHYSIOLOGY

The role of dermorphin in the regulation of the winter hibernation processes in mammals p 38 A93-16748 SUBJECT INDEX **NITROGEN**

Vagotropic effects of peptides isolated from the brain The OMPAT level 1 Neurophysiological Performance **NEUROTRANSMITTERS** of hibernating susliks Assessment Battery: NPPAB p 38 A93-16749 Polyphosphoinositide neurotransmitters after an exposure to a helium-oxygen Effect of high temperature on the beta-adrenoreceptor LAD-A2548401 p 27 N93-12432 Functional MRI studies of human vision on a clinical activity and the catecholamine synthesis p 76 A93-18296 atmosphere at a high pressure p 39 A93-16750 imager Effect of chronic D-fenfluramine administration on rat Sleep as a restorative process under extreme IDE92-0174481 p 49 N93-12566 hypothalamic serotonin levels and release A core facility for the study of neurotoxins of biological p 89 A93-18291 p 152 A93-27049 Local blood supply of the brain of guinea pigs developing Dopamine release in rat striatum - Physiological coupling p 50 N93-12945 IAD-A2543591 the high-pressure neural syndrome p 76 A93-18293 A device for the prolonged restraint of primates in osed-space conditions p 77 A93-18302 p 152 A93-27050 to tyrosine supply The neurochemical and neuropharmacological basis of Serotonin release varies with brain tryptophan levels closed-space conditions motion sickness p 201 A93-32119 INASA-CR-1909571 p 50 N93-13061 In search of the human touch --- in design of robotic Effects of dietary amino acids, carbohydrates, and Investigation of effects of 60-Hz electric and magnetic p 102 A93-19256 choline on neurotransmitter synthesis Differential effects of long-term fields on operant and social behavior and on the hypoxia on p 204 A93-33031 norepinephrine turnover in brain stem cell groups neuroendocrine system of nonhuman primates, part 2 Understanding microwaves IDE92-0401531 p 41 N93-13503 p 78 A93-20030 ISBN 0-471-57567-4 p 357 A93-46300 Investigation of effects of 60-Hz electric and magnetic Computer-assisted three-dimensional reconstruction Neurochemical control of circadian rhythms macular and simulations of vestibular fields on operant and social behavior and on the p 50 N93-13116 connectivities neuroendocrine system of nonhuman primates, part 1 I AD-A255054 I p 104 A93-20700 Effects of simulated high altitude exposure on IDE92-0401521 p 41 N93-13520 Study of SCN neurochemistry using in vivo microdialysis long-latency Neuromagnetic investigations of event-related brain potentials cortical regions in the conscious brain: Correlation with circadian activity performance p 117 A93-24042 underlying short-term memory rhythms p 217 N93-23459 Tryptophan availability modulates serotonin release from [AD-A255788] p 58 N93-14646 I AD-A2598031 rat hypothalamic slices p 152 A93-27000 Extrathalmic modulation of cortical function Molecular approach to hypothalamic rhythms p 53 N93-14782 p 335 N93-30421 Effect of chronic D-fenfluramine administration on rat [AD-A255440] LAD-A264438 L Cognition and the brain hypothalamic serotonin levels and release **NEUTRAL BUOYANCY SIMULATION** [AD-A255483] p 59 N93-14788 p 152 A93-27049 Neutral buoyancy simulation of space telerobotics Rett syndrome - Stimulation of endogenous biogenic Statistical analysis of the human strangulation operations p 185 A93-27038 experiments: Comparison to +Gz-induced loss of p 164 A93-28697 NIGHT VISION Normalization of cell responses in cat striate cortex consciousness The effect of roll-stabilized sensor information on pilot p 54 N93-14789 p 154 A93-28700 performance p 175 A93-27130 Serotonin release varies with brain tryptophan levels Physiology **Publications** of the Space Methods for test and evaluation of night vision goggle Countermeasures Program, Neuroscience Discipline: n 201 A93-32119 p 188 A93-27182 integrated helmets Persistent blockade of potassium-evoked serotonin Human factors issues in the use of night vision INASA-CR-44761 release from rat frontocortical terminals after fluoxetine p 55 N93-15583 p 189 A93-27193 devices administration Conversion of temporal correlations between stimuli to p 202 A93-32125 USAF/USN fixed wing night vision - The mission patial correlations between attractors Effects of dietary amino acids, carbohydrates, and p 227 A93-30055 p 96 N93-16962 choline on neurotransmitter synthesis (PREPRINT-856) Mathematics and biology: The interface, challenges and Helmet mounted display with multiple image sources p 204 A93-33031 p 227 A93-30057 Tyrosine - Effects on catecholamine release opportunities p 204 A93-33038 [DE92-041207] p 82 N93-17359 Helmet-mounted display for the night attack mission The role of central monoaminergic systems in arousal Central neurophysiological and neurochemical vomiting p 228 A93-30059 mechanisms (Review of the literature) and selective attention Low-cost monochrome CRT helmet display p 122 N93-18264 p 228 A93-30061 p 240 A93-35232 JAD-A258500 J Neuroscience discipline science plan Visual illusions and other effects with night vision The asthenic syndrome and the dynamics of [NASA-TM-1080411 p 128 N93-19882 A93-35241 p 256 p 230 A93-30072 mental-work capacity Automated system for analyzing the activity of individual Long-lasting neuropsychological changes after a single Spatial contrast sensitivity through aviator's night vision high altitude climb p 278 A93-39713 p 173 N93-22163 p 393 A93-52300 imaging system Micromotional studies of utricular and canal afferents Selective factors affecting rotary wing aviator performance with symbology superimposed on night vision Inhibition of EGF-induced signal transduction by [NASA-CR-192703] microgravity is independent of EGF receptor redistribution Analysis and synthesis of adaptive neural elements and in the plasma membrane of human A431 cells goggles p 272 A93-39715 p 35 N93-12508 assemblies I AD-A254983 I 1AD-A2599541 p 219 N93-24247 Cognitive performance and event-related brain Integration of exterior lighting systems and night vision potentials under simulated high altitudes Computer based analysis and synthesis of retinal imaging systems p 331 A93-42189 IAD-A2548261 function n 63 N93-12732 [AD-A260514] p 221 N93-24420 Evaluation of Night Vision Googles (NVG) for maritime Habituation to feline motion sickness of p 328 A93-44900 Neuropsychological components search and rescue (joint Canadian/US Coast Guard object identification Vestibular afferent responses to microrotational stimuli experiment) p 259 N93-26347 [AD-A261449] AD-A255525 | p 70 N93-14554 p 328 A93-44930 Night vision manual for the flight surgeon
AD-A257059 | p 104 N93-15710 The human EEG correlates during many-sided peripheral Neural basis of motion perception p 260 N93-26349 I AD-A261452 I exposure to an alternating magnetic field I AD-A257059 I Imaging regional changes in the spontaneous activity Evaluation of Night Vision Goggles (NVG) for maritime p 363 A93-46966 of the brain: An extension of the minimum-norm search and rescue Immunocytochemical localization of atrial natriuretic least-squares estimate p 107 N93-17697 factor (ANF)-like peptides in the brain and heart of the (AD-A257704) p 260 N93-26436 treefrog Hyla japonica - Effect of weightlessness on the IAD-A2615931 A new concept for helmet mounted vision Neuromagnetic investigation of cortical regions p 145 N93-19767 distribution of immunoreactive neurons and cardiocytes underlying short-term memory Helicopter night vision goggle testing in the United p 377 A93-49561 AD-A2614451 p 261 N93-26521 p 148 N93-19917 Role of the central nervous system in the control of Kingdom hybernation p 378 A93-51025 Analysis of neural systems involved in modulation of Night vision goggle training: Development and production of six video programs Motion and space sickness IAD-A2624181 p 283 N93-27654 AD-A2585291 p 148 N93-20050 [ISBN 0-8493-4703-3] p 402 A93-55929 Motion sickness and evolution p 399 A93-55930 The AFOSR Workshop on the Future of EEG and In-flight field-of-view with ANVIS [AD-A259905] p 235 N93-23992 Neurophysiology of motion sickness MEG p 335 N93-30160 p 399 A93-55932 [AD-A264338] Human visual limitations on suprathreshold contrast perception through ANVIS Neurochemistry and pharmacology of motion sickness Control and circadian behavior by transplanted AD-A259970) p 226 N93-24431 in nonhuman species p 399 A93-55934 suprachiasmatic nuclei Physiology of motion sickness symptoms p 335 N93-30382 Interpupillary and vertex distance effects on field-of-view (AD-A264553) and acuity with ANVIS p 403 A93-55939 Multiple neuron recording in the hippocampus of freely Adaptation to nauseogenic motion stimuli and its [AD-A261259] p 268 N93-26265 moving animals application in the treatment of airsickness Evaluation of test methods and requirements for p 330 N93-30594 I AD-A264807 I respiratory protection systems 21 p 404 A93-55947 Organization of the human circadian system [AD-A262466] p 317 N93-28757 Computer simulations of object discrimination by visual p 361 N93-32015 [AD-A264675] ° test results and Head-steered sensor flight Neurophysiological analysis of circadian rhythm [AD-A253345] p 318 N93-28859 o 12 N93-10271 implications System automation and pilot-vehicle-interface for Auditory processing of complex sounds across p 361 N93-32018 I AD-A264681 I frequency channels unconstrained low-altitude night attack NEUROPSYCHIATRY p 320 N93-28867 p 13 N93-10650 [AD-A2536121 Cortical localization of cognitive function by regression CATS EYES adjustment procedures An introduction to the information processing of performance on event-related potentials p 353 N93-29924 I AD-A2640691 components of the brain p 9 A93-10337 The effects of superimposing symbology on a simulated p 25 N93-10979 [RSRE-MFMO-4350] Measuring performance decrements in aviation personnel infected with the human immunodeficiency night vision goggle display [AD-A263458] Physiological analyses of the afferents controlling brain

p 130 A93-25209

p 23 A93-10334

neurochemical systems

Neuropsychiatric morbidity in early HIV disease:

Implications for military occupational function

p 14 N93-11146

p 18 N93-11299

NEUROTIC DEPRESSION

depression levels

An assessment of Turkish Air Force pilots' anxiety and

[AD-A2531851

p 354 N93-30590

p 75 A93-18289

The effect of elevated nitrogen pressure on motor activity

and relationships among brain centers in monkeys

NITROGEN METABOLISM SUBJECT INDEX

Nitrogen control of chloroplast development and **NUCLEAR RADIATION** Body composition and physical performance AFRRI reports I AD-A255627 | p 69 N93-14161 p 81 N93-16805 differentiation IDE92-0173921 p 39 N93-12768 IAD-A2545811 p 49 N93-12649 Nutrition A proposal to demonstrate production of salad crops Planetary Biology and Microbial Ecology: Molecular NUCLEAR REACTIONS Ecology and the Global Nitrogen cycle [NASA-CR-4497] in the Space Station Mockup Facility with particular Target fragmentation in radiobiology p 269 N93-26157 INASA-TM-44081 р 124 N93-18381 attention to space, energy, and labor constraints **NITROGEN METABOLISM** INASA-CR-1928151 p 209 N93-23169 NUCLEAR WARFARE Effect of spaceflight on human protein metabolism Nutrition for a typical MAC crew during Desert Storm Pyrolysis of vegetation by brief intense irradiation p 368 N93-32245 p 360 A93-47097 p 324 A93-42915 **NITROGEN OXIDES NUCLEI (CYTOLOGY)** Changes in food and energy intake in military aircrew Evaluation of NO(x)-induced toxicity p 368 N93-32246 The response of medullar respiratory neurons to the p 283 N93-28122 IAD-A2610341 stimulation of the amygdaloid nuclei under hypoxia Trial of emergency ration of the Spanish Air Force **NITROUS OXIDES** p 2 A93-12860 p 368 N93-32247 Reduced voluntary non-visual suppression of the The effect of cortical vestibular area stimulation on the Nutritional and lifestyle status of 50 pilots of the vestibulo-ocular reflex gain during nitrous oxide narcosi activity of the neurons of lateral vestibular nuclei during p 369 N93-32255 Portugese Air Force p 7 A93-10329 wihration p 2 A93-12863 NYLON (TRADEMARK) NOISE (SOUND) NUCLEIC ACIDS Evaluation of personal cooling systems in conjunction Classification of complex sounds Roles of water molecules in bacteria and viruses [AD-A258405] with explosive ordnance disposal suits p 122 N93-18223 p 243 A93-36555 Measuring hearing protection device performance using the metrosonics db-3100 sound level analyzer [AD-A262862] p.350 N93-29471 NUCLEONS NYSTAGMUS A computer model to determine the primary contributors Effect of transdermally administered scopolamine on the (dosimeter) to relative radiation dose received by astronauts p 383 A93-49572 p 265 N93-25787 vestibular system in humans p 43 A93-13935 Sound attenuation characteristics of the standard NUCLEOTIDES DH-132A and SPH-4 helmets worn in combination with Nucleotide-protectable labeling of sulfhydryl groups in 0 standard issue earplugs subunit I of the ATPase from Halobacterium [AD-A263011] p 350 N93-29406 saccharovorum p 201 A93-32116 **NOISE INJURIES** Some biochemical properties OATS Some characteristics of the etiopathogenesis of hearing A proposal to determine properties of the gravitropic oligonucleotide analogue - A plausible ancestor of the loss in aircraft personnel p 359 A93-45691 p 269 A93-36560 response of plants in the absence of a complicating g-force The influence of military low-altitude flight noise on the (GTHRES) Nucleotide analogs based on pentaerythritol - An p 325 A93-43794
The binding and reactions of nucleotides and physical physi inner ear of the guinea pig. II - Scanning electron ÎNASA-CR-1922191 p 114 N93-19377 hypothesis micrographs p 377 A93-49556 nucleotides and OBESITY NOISE SPECTRA polynucleotides on iron oxide hydroxide polymorphs Differential effects of insulin resistance on leucine and Spectral motion produces an auditory after-effect p 325 A93-43795 alucose kinetics in obesity p 152 A93-27224 p 405 A93-55579 Unexpected substrate specificity of T4 DNA ligase **OBJECT-ORIENTED PROGRAMMING** Auditory perception revealed by in vitro selection p 397 A93-52878 DOKMA: A document oriented communication model Group II intron RNA catalysis of progressive nucleotide [AD-A255061] p 23 N93-12469 for medical applications as a basis of a role system in insertion - A model for RNA editing Classification of complex sounds p 398 A93-55292 the medical field AD-A2584051 p 122 N93-18223 Oligomerization reactions of ribonucleotides - The [ETN-93-93799] p 284 N93-28469 NONEQUILIBRIUM CONDITIONS reaction of the 5'-phosphorimidazolide of adenosine with **OBSTACLE AVOIDANCE** Chiral-symmetry-breaking in nonequilibrium chemical systems - The racemization influence diadenosine pyrophosphate on montmorillonite and other A study of the effects of lens focal length on remote minerals p 412 A93-55998 driver performance p 269 A93-36563 Nitrogen control of chloroplast development and [AD-A263191] p 321 N93-28941 NONLINEARITY differentiation OCCLUSION Operator-assisted planning and execution of proximity [DE92-017392] p 39 N93-12768 Two types of occlusion cues for the perception of 3-D operations subject to operational constraints NUMERICAL CONTROL illusory objects in binocular fusion p 222 A93-30239 p 194 N93-21436 Safety issues of manipulator systems under computer Recognition of partially occluded threat objects using NORADRENALINE p 192 A93-29121 control p 142 N93-19466 the annealed Hopefield network The adrenatin/noradrenatin and the alpha/beta Computerized atmospheric trace contaminant control Perception/action: An holistic approach adrenoreceptor correlations in the myocardium and the simulation for manned spacecraft p 235 N93-24067 adrenergic chronotropic and ionotropic reactions under IAD-A2595971 INASA-TM-1084091 p 321 N93-28977 OCCUPATION NUTRIENTS extreme conditions and during adaptation p 1 A93-10125 Disorientation and flight safety: A survey of UK Army Effects of their nutrient precursors on the synthesis and Tissue-specific noradrenergic activity during acute heat tress in rats p 323 A93-42193 p 133 N93-19680 of serotonin, the catecholamines, and aircrew acetylcholine - Implications for behavioral disorders stress in rats Selection of personnel for stressful occupations: The NOREPINEPHRINE p 204 A93-33033 potential utility of psychophysiological measures as Altered baseline blood volume and the norepinephrine A matrix-based porous tube water and nutrient delivery response to stress in humans D 43 A93-14123 system LAD-A2645711 p 363 N93-32011 Differential effects of long-term hypoxia on [SAE PAPER 921390] p 309 A93-41548 OCCUPATIONAL DISEASES norepinephrine turnover in brain stem cell groups CELSS nutrition system utilizing snails Fluorocarbon 113 exposure and cardiac dysrhythmias p 78 A93-20030 p 394 A93-52411 among aerospace workers p 168 A93-28739 Relationship between pituitary ACTH content and Characterization of the water soluble component of Working hours and fatigue of Japanese flight attendants hypothalamic catecholamines in the rat inedible residue from candidate CELSS crops (FA) p 171 A93-28762 p 203 A93-33028 INASA-TM-1075571 p 139 N93-18111 Occupational dermatitis in the aircraft industry - 35 years Norepinephrine content in discrete brain areas and Active synthetic soil [NASA-CASE-MSC-21954-1-NP] p 215 A93-32776 of progress p 114 N93-19054 neurohypophysial vasopressin in rats after a 9-d spaceflight Comparison of spinal health indicators in predicting NUTRITION p 273 A93-41167 spinal status in a 1-year longitudinal study Physiological analyses of the afferents controlling brain p 81 N93-16805 p 216 A93-32786 neurochemical systems Nutrition and hydration status of aircrew members Occupational health problems in aviation medicine [AD-A253185] p 14 N93-11146 consuming the food packet, survival, general purpose, p 252 A93-36743 improved during a simulated survival scenario Extrathalmic modulation of cortical function Barotrauma in Boeing 737 cabin crew [AD-A255440] p 53 N93-14782 [AD-A258744] p 128 N93-20384 p 278 A93-39706 Nutrition, Metabolic Disorders and Lifestyle of Aircrew NOSE (ANATOMY) I AGARD-CP-533 I p 367 N93-32240 Some characteristics of the etiopathogenesis of hearing Allergic and nonallergic rhinitis in Greek pilots An automated processing system for food frequency and p 359 A93-45691 loss in aircraft personnel p 21 N93 11317 nutrition knowledge questionnaire Specific absorption and radiofrequency rate **NUCLEAR MAGNETIC RESONANCE** Nutritional assessment of United States tactical air current-to-ground in human models exposed to near-field A comparison of neural network and fuzzy clustering p 367 N93-32242 p 360 A93-47098 command pilots irradiation techniques in segmenting magnetic resonance images of Nutrition for a typical MAC crew during Desert Storm p 214 A93-31267 Back ache in helicopter pilots p 382 A93-49566 p 368 N93-32245 Nutritional and lifestyle status of 50 pilots of the Degeneration of cervical intervertebral disks in fighter 13 C NMR spectra of allosteric effectors of pilots frequently exposed to high +Gz forces hemoglobin Portugese Air Force p 369 N93-32255
The influence of dietary counseling and cardiac p 384 A93-52298 IAD-A2629791 p 284 N93-28293 The Proceedings of the Hypobaric Decompression NUCLEAR MEDICINE catheterization on lipid profiles in American military Proceedings of a Workshop on Molecular Nuclear Sickness Workshop p 369 N93-32259 IAD-A2576121 p 123 N93-18362 Biological parameters and cardiovascular risk factors OCEAN BOTTOM IDE93-0108281 p 285 N93-28835 with the flying personnel of the Belgian Armed Forces Bacterial sulfate reduction above 100 C in deep-sea **NUCLEAR POWER PLANTS** p 370 N93-32260 hydrothermal vent sediments p 80 A93-20672 Human factors engineering: A key element of **NUTRITIONAL REQUIREMENTS** OCEAN SURFACE instrumentation and control system design Some features characterizing the supply of astronauts p 264 N93-25415 Algae and oxygen in earth's ancient atmosphere with vitamins C. B1. B2, and B6 during nourishment from IDE93-0067311 p 153 A93-27800 **NUCLEAR PROPULSION** canned-food rations on long-term space flights p 249 A93-35231 Radiation exposure and dose estimates for a **OCEANS**

CELSS nutrition system utilizing snails

p 394 A93-52411

Europa: Prospects for an ocean and exobiological

p 113 N93-18552

nuclear-powered manned Mars sprint mission p 60 A93-13817

SUBJECT INDEX OCULAR CIRCULATION Contribution of the analysis of ocular activity (complementary to the electroencephalographic analysis) to the detection of low vigilance in instances of piloting a vehicle p 127 N93-19708 OCULOMETERS Dynamic analysis of ocular torsion in parabolic flight p 386 A93-52405 using video-oculography OCULOMOTOR NERVES Predictable eye-head coordination during driving p 57 A93-16373 The character of spontaneous oculomotor activity in weightlessness and during readaptation p 248 A93-35219 Motion sickness and oculomotor systems in virtual p 381 A93-49400 **OFFGASSING** Protective helmet assembly [NASA-CASE-MSC-21842-1] p 106 N93-17088 **OLFACTORY PERCEPTION** Explosives search dogs p 159 N93-21933 Primary events in olfactory reception IAD-A2605621 p 255 N93-25944 OLIGOMERS Some biochemical properties of an acyclic oligonucleotide analogue - A plausible ancestor of the p 269 A93-36560 Oligomerization reactions of ribonucleotides - The reaction of the 5'-phosphorimidazolide of adenosine with diadenosine pyrophosphate on montmorillonite and other p 412 A93-55998 minerals OLIVINE Formation of reduced carbonaceous matter in basalts and xenoliths - Reaction of C-O-H gases on olivine crack surfaces --- space biological evolution p 411 A93-53286 ON-LINE SYSTEMS Automated system for analyzing the activity of individual neurons p 173 N93-22163 Operator Performance Support System (OPSS) p 196 N93-22195 ONBOARD DATA PROCESSING Intelligent fault management for the Space Station active thermal control system p 32 N93-11930

ONBOARD EQUIPMENT

Information management problems and their influence on cockpit equipment architecture of transport aircraft p 223 A93-31491

OPERATIONAL AMPLIFIERS

Investigation into the common mode rejection ratio of the physiological signal conditioner circuit

p 245 N93-26073

p 232 A93-33444

OPERATIONAL HAZARDS

Hazard alerting and situational awareness in advanced air transport cockpits p 61 A93-14377 Rationale for a hyperbaric treatment capability at a Lunar Station p 213 A93-30286

OPERATOR PERFORMANCE

The quality of an operator's work on a flight simulator under conditions of thermal discomfort

p 45 A93-15172 Visual display aid for orbital maneuvering - Experimental valuation p 136 A93-23519 evaluation Individual differences and subgroups within populations - The shopping bag approach p 136 A93-24050 An individual differences approach to fitness-for-duty assessment p 178 A93-27178 CREWCUT - A new tool for predicting human performance in conceptual systems p 178 A93-27179 CREWCUT - A tool for modeling the effects of high

workload on human performance p 178 A93-27180 Testing a subjective metric of situation awareness p 178 A93-27183

Some biochemical and functional characteristics of body state during multihour operator activity under extreme

p 161 A93-27686 conditions Predicting individual differences in complex skill acquisition - Dynamics of ability determinants

p 181 A93-28731 Telerobotic system performance measurement

Motivation and methods p 191 A93-29114
Estimation of the number of operators and their efficiency in flight vehicle control p 193 A93-29696 The advent of helmet-mounted devices in the combat aircraft cockpit - An operator's viewpoint

p 227 A93-30056 Proposed evaluation framework for assessing operator performance with multisensor displays

Depth cue interaction in telepresence and simulated telemanipulation p 232 A93-33446 Features of an ethanol effect in operators with different p 250 states of skin tissue basophils A93-35252 A93-40771 Cognitive predictors of vigilance

Performance under dichoptic versus binocular viewing conditions - Effects of attention and task requirements p 287 A93-40772

Investigation of individual and typological features of an operator's nervous system under different work regimes p 339 A93-43024

Operator performance with alternative manual control modes in teleoperation p 390 A93-49397

Telerobot control mode performance assessment 1AAS PAPER 92-0531 p 392 A93-50593 Real-time expert system interfaces, cognitive processes, and task performance - An empirical assessment

p 394 A93-52503 From pilot's associate to satellite controller's p 32 N93-11922 associate Effects of spatial luminance nonuniformities on

visual-task performance and subjective uniformity p 58 N93-14416 |AD-A255989|

Gloved operator performance study

IAD-A2568941 D 104 N93-16048 An automated version of the dichotic listening test: Hardware, software, and procedural details

p 120 N93-17895 1AD-A2581141 Requirements for an automated human factors, manpower, personnel, and training (HMPT) planning tool [AD-A258531] p 195 N93-21753

Operator Performance Support System (OPSS) p 196 N93-22195

Engineman stress and fatigue: Pilot tests PB93-175008) p 351 N93-29675 The air traffic controller's mental model and it's IPB93-1750081

implications for equipment design and trainee selection p 341 N93-30322

OPERATORS (PERSONNEL)

Features of an ethanol effect in operators with different states of skin tissue basophils p 250 A93-35252 The European astronauts training programme

p 226 N93-24346

OPHTHALMOLOGY

Photo-Refractive Keratectomy (PRK) p 401 A93-55169 millennium for military pilots? Operational use of contact lenses by military aircrew AGARD-AG-334] p 95 N93-15824

OPTICAL CORRECTION PROCEDURE

A computational model for the stereoscopic optics of head-mounted display p 390 A93-49393

OPTICAL DATA PROCESSING Visual data interpretation; Proceedings of the Meeting,

San Jose, CA, Feb. 10-11, 1992 p 391 A93-49451 I SPIE-1668 I

A new concept for helmet mounted vision p 145 N93-19767

OPTICAL EQUIPMENT

United States Army space experiment 601 p 260 N93-26353 LAD-A2614601

OPTICAL FIBERS

A fiber optic probe for the detection of cataracts p 254 N93-25593

Toward the ideal military aviation sunglass I AD-A258200 I p 140 N93-18200

OPTICAL ILLUSION

Visual scene effects on the somatogravic illusion

p 88 A93-18035 Illusions of visual-target motion caused by electrical estibular stimuli p 119 A93-25653 Optovert: An AustroMir-1991 experiment. Orientational vestibular stimuli

effects from optokinetic stimulation p 226 N93-24366
OPTICAL MEASUREMENT

Theory of signal detection and its application to visual target acquisition: A review of the literature [AD-A262920] p 288 p 288 N93-28307

OPTICAL PROPERTIES

Nonlinear optical properties of porphyrin and chlorophyll dimers studied by degenerated four wave mixing IDE93-0064111 p 210 N93-24028

OPTICAL TRACKING

Linear vestibuloocular reflex during motion along axes between nasooccipital and interaural p 203 A93-32773

Dynamic analysis of human visuo-oculo-manual coordination control in target tracking tasks

p 287 A93-41166 Helmet slippage during visual tracking - The effect of p 389 A93-49223 voluntary head movements

OPTIMAL CONTROL

Movement tracking performance as a function of equired force level p 177 A93-27171 Dynamic multiobjective decision and its application in required force level environmental control and life support system

p 230 A93-30439 Modeling human response errors in synthetic flight simulator domain p 141 N93-19464 Optimization of 15 parameters influencing the long-term

survival of bacteria in aquatic systems [NASA-CR-192571] p 359 N93-32365 **OPTIMIZATION**

Vision modelling applications for display optimisation

The optimum design of personal liquid cooling system p 60 A93-14314

Operator/system communication - An optimizing p 101 A93-19104 decision tool

An approach to the functional optimization of the CELSS Test Facility p 295 A93-41375 [SAE PAPÉR 921199]

Human habitat design for the Space Exploration Initiative p 344 A93-41978 In vitro selection of optimal DNA substrates for T4 RNA

p 329 A93-44939 ligase User areas in aircraft cockpit, using methods of rapid rototype development

| MBB-FE-315-S-PUB-0493 | p 196 N93-22389 Shape optimization of tibial prosthesis components [NASA-CR-191123] p 246 N93-27085

OPTOMETRY Optovert: An AustroMir-1991 experiment. Orientational effects from optokinetic stimulation p 226 N93-24366

ORBITAL ASSEMBLY Operator vision aids for telerobotic assembly and

p 262 A93-35530 servicing in space EVA operational guidelines and considerations for use during the Space Station Freedom design review process p 345 A93-42119

Motion planning of a dual-arm free-floating manipulator with inertially fixed base

LAIAA PAPÉR 93-38641 p 393 A93-51450 Operator vision aids for space teleoperation assembly and servicing p 33 N93-11981

SHARC: Space Habitat, Assembly and Repair Center p 140 N93-18153 [NASA-CR-192031]

ORBITAL MANEUVERS

Visual display aid for orbital maneuvering - Design onsiderations p 135 A93-23518 considerations Visual display aid for orbital maneuvering - Experimental p 136 A93-23519 evaluation

ORBITAL RENDEZVOUS

Operator-assisted planning and execution of proximity operations subject to operational constraints

p 194 N93-21436

ORBITAL SERVICING

Intelligent robotics capabilities of the teleautonomy p 184 A93-27035 EMATS, a robot-based Equipment Manipulation and Transportation System for the Columbus Free Flying p 231 A93-31522 Laboratory Operator vision aids for telerobotic assembly and

p 262 A93-35530 servicing in space A vision system planner for increasing the autonomy

of the Extravehicular Activity Helper/Retriever p 365 N93-31844 [NASA-CR-193301]

ORBITAL SPACE TESTS

Conceptual design of ECLSS microgravity test beds (SAE PAPER 921164) p 294 A93-41346 **ORGANELLES**

The internal dynamics of slowly rotating biological

systems p 375 A93-49208
The fast rotating clinostat - A history of its use in gravitational biology and a comparison of ground-based and flight experiment results p 376 A93-49212 ORGANIC CHEMISTRY

Chemical markers of prebiotic chemistry in hydrothermal p 74 A93-18006

Hydrothermal organic synthesis experiments p 74 A93-18007

Giant planets: Clues on current and past organic chemistry in the outer solar system p 113 N93-18551 ORGANIC COMPOUNDS

Organic models of interstellar grains

p 35 A93-11847 Comet Halley as an aggregate of interstellar dust and further evidence for the photochemical formation of organics in the interstellar medium Comets and the formation of biochemical compounds on the primitive earth - A review p 109 A93-17977 Comets as a possible source of prebiotic molecules

p 109 A93-17979 Cometary supply of terrestrial organics - Lessons from the K/T and the present epoch p 109 A93-17981

The fate or organic matter during planetary accretion - Preliminary studies of the organic chemistry of experimentally shocked Murchison meteorite

p 110 A93-17984 Terrestrial and extraterrestrial sources of molecular p 110 A93-17986 homochirality Thermal evolution of cometary nuclei by radioactive

heating and possible formation of organic chemicals p 196 A93-27561 Laboratory simulation of organic grain mantles

p 268 A93-36554

SUBJECT INDEX

ORGANIC LIQUIDS The development and testing of a volatile organics concentrator for use in monitoring Space Station water quality | SAE PAPER 921266| p 300 A93-41436 Determination of organic carbon and ionic accountability of various waste and product waters derived from ECLSS water recovery tests and Spacelab humidity condensate |SAE PAPER 921313| p 303 A93-41475 Generation of iodine disinfection by-products (IDP's) in a water recycle system | SAE PAPER 921362| p 307 A93-41521 Deep-sea smokers -Windows to a subsurface biosphere? p 397 A93-53284 Hydrothermal dehydration of aqueous organic A93-53291 p 397 The violent environment of the origin of life - Progress and uncertainties p 412 A93-53292 tetrapyrroles (phycobilins) a model in p 398 A93-53350 prebiological system
The Moon: Biogenic elements o 113 N93-18548 Marine microbial production of dimethylsulfide from dissolved dimethylsulfoniopropionate INASA-CR-1932781 p 330 N93-30665 ORGANIC LIQUIDS Aqueous high-temperature and high-pressure organic geochemistry of hydrothermal vent systems p 397 A93-53285 ORGANIC MATERIALS Carbonaceous chondrites and the origin of life p 412 A93-55997 Hydrothermal organic synthesis experiments [NASA-CR-191257] p 41 N93-13457 ORGANIC PHOSPHORUS COMPOUNDS Polyphosphoinositide response to various neurotransmitters after an exposure to a helium-oxygen atmosphere at a high pressure p 76 A93-18296 **ORGANISMS** Ground testing of bioconvective variables such as morphological characterizations and mechanisms which p 82 N93-17303 regulate macroscopic patterns The solar system: Importance of research to the biological sciences p 113 N93-18547 Planetary Biology and Microbial Ecology: Molecular Ecology and the Global Nitrogen cycle p 269 N93-26157 [NASA-CR-4497] ORGANIZING Flight physiology - Clinical considerations p 164 A93-28690 ORGANOMETALLIC COMPOUNDS Submarine Advanced Integrated Life Support system (SAILS) program AD-A2535641 p 32 N93-11812 ORGANS Investigation of nonlinear dynamic responses to random vibration in dogs p 4 A93-13722 ORIENTATION Influence of animation on dynamical judgments p 180 A93-28692 The impact of visual noise on spatial orientation p 257 A93-36229 ORTHOPEDICS Design of a portable powered seat lift p 195 N93-22190 Shape optimization of tibial prosthesis components [NASA-CR-191123] p 246 N93-27085 ORTHOSTATIC TOLERANCE The responses of cardiovascular during head-up tilt plus lower body negative pressure p 9 A93-11690 Blood and urine responses to ingesting fluids of various salt and glucose concentrations --- to combat orthostatic intolerance p 83 A93-17528 Development of lower body negative pressure as a countermeasure for orthostatic intolerance p 83 A93-17529 Orthostatic function during a stand test before and after head-up or head-down bedrest p 84 A93-17530 Human autonomic responses to actual and simulated p 85 A93-17540 weightlessness Drug effects on orthostatic intolerance induced by p 86 A93-17544 Posture and the circulation - The age effect p 93 A93-20653 Cardiovascular physiology in space flight p 93 A93-20654 Cardiovascular responses to lower body negative pressure in trained and untrained older men p 115 A93-21686 Effect of prolonged antiorthostatic bed rest hypokinesia on functional properties of the neuromuscular system in p 116 A93-23151 Oxygen tension and water-soluble products of lipid Increased orthostatic blood pressure variability after peroxidation in blood of volunteers in hypobaric p 161 A93-28676 prolonged head-down tilt hyperoxial Lipid peroxidation and the antioxidant defense system Influence of ten-day head-down bedrest on human carotid baroreceptor-cardiac reflex function p 161 A93-28678 biosatellite

Effects of head-down tilt for 10 days on the compliance p 162 A93-28680 of the leg Carotid-cardiac baroreflex response and LBNP tolerance following resistance training p 164 A93-28696 Aerobic fitness. I - Response of volume regulating p 167 A93-28721 hormones to head-down tilt Hemodynamic status of humans during a graded rthostatic test p 248 A93-35221 Diurnal rhythmicity of human orthostatic stability p 250 A93-35253 Hemodynamics in monkeys during antiorthostatic hypokinesia at angles of -6 and -20 deg p 241 A93-35259 Microgravity and orthostatic intolerance - Carotid hemodynamics and peripheral responses p 278 A93-39716 Orthostatic intolerance during a 13-day bed rest does not result from increased leg compliance p 280 A93-41119 Protective effects of Rhodiola crenulata on rats under antiorthostatic position and professional athletes p 327 A93-44843 Changes in the central hemodynamics under antiorthostasis in humans with different blood circulation types and physical training levels p 359 A93-46967 Hemodynamic and hormonal correlates with exposure to lower body negative pressure after 12 hours head-down p 379 A93-49220 Hormonal responses during orthostasis following 4 hours of head-down tilt p 379 A93-49221 Evaluation of spontaneous baroreflex response after 28 days head down tilt bedrest p 386 A93-52404 Higher capillary filtration rate in the calves of endurance-trained subjects during orthostatic stress p 401 A93-55165 Effect of aerobic capacity on Lower Body Negative Pressure (LBNP) tolerance in females p 128 N93-20318 [NASA-TP-3298] OSCILLATIONS Perceptual scaling of whole-body low frequency lines oscillatory motion p 379 A93-49225 OSMOSIS Diuresis and natriuresis following isotonic saline infusion in healthy young volunteers before, during, and after p 163 monovalent cation Changes in the osmotality. concentration, and protein structure of blood plasma under extreme conditions p 200 A93-31188 OSTEOPOROSIS Age-related bone changes p 93 A93-20655 Can the adult skeleton recover lost bone? p 93 A93-20656 The mechanical control system of bone in weightless p 94 A93-20657 spaceflight and in aging Effect of devamethasone on proliferating osteoblasts -Inhibition of prostaglandin E2 synthesis, DNA synthesis, and alterations in actin cytoskeleton p 155 A93-28728 Prevention of space flight induced soft tissue calcification and disuse osteoporosis p 214 A93-31545 OTOLITH ORGANS Antagonistic otolith-visual units in cat vestibular nuclei p 199 A93-30511 Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change p 242 A93-35264 Role of the vestibular end organs in experimental motion p 399 A93-55933 sickness - A primate model Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility NASA-CR-193304 p 363 N93-32364 OUTER SPACE TREATY The province and heritage of mankind reconsidered: A new beginning p 69 N93-14018 OVARIES Functional state of the vegetative nervous system in women undergoing women undergoing high-altitude readaptation to 760 m above sea level adaptation and p 44 A93-15165 Melatonin in human preovulatory follicular fluid p 215 A93-32474 Prolactin-induced mitogenesis of lymphocytes from ovariectomized rats p 329 A93-44934 OVERPRESSURE Measurement and evaluation of blast overpressure during F-15A crew station vulnerability assessment test A2571521 p 104 N93-16033 OXIDATION

p 169 A93-28751

p 239 A93-35210

after a 13-day flight on the Cosmos-1887

aberrations in mice after repeated exposures to a helium-oxygen respiration mixture under hyperbaric p 243 A93-35672 conditions Ferrous iron oxidation by anoxygenic phototrophic p 271 A93-39280 bacteria Post-treatment of reclaimed waste water based on an electrochemical advanced oxidation process |SAE PAPER 921275| p 301 A93-41444 Ozone - A new aspect of its effect on microorganisms p 398 A93-54971 Influence of the Cold Buster (tm) sports bar on heat debt, mobilization and oxidation of energy substrates IAD-A2627621 p 285 N93-28939 **OXIDATION-REDUCTION REACTIONS** Integrated oxygen recovery system INASA-CR-1923431 p 234 N93-22663 Integrated oxygen recovery system p 267 N93-26088 [NASA-CR-192982] Investigation of laser-induced retinal damage p 338 N93-31094 [AD-A264096] OXYGEN Effects of oxygen on regulation of cerebral blood flow in rabbits adapted to hypoxia p 3 A93-13545 Control of breathing under conditions of altered atmospheric density during muscular work p 89 A93-18288 Electrophysiological and ultrastructural aspects of the effect of high-pressure oxygen on the sensomotor cortex of the rat brain p 77 A93-18300 Dynamic characteristic of changes of oxygen saturation of blood hemoglobin under conditions of acute hypoxia in human body p 91 A93-19993 Rett syndrome - Stimulation of endogenous biogenic amines p 164 A93-28697 Comparisons of molecular sieve oxygen concentrators for potential medical use aboard commercial aircraft p 31 N93-11279 [AD-A253648] Postoperative hyperbaric oxygen treatment of peripheral nerve damage [AD-A255842] p 52 N93-14084 Nifedipine for treatment of high altitude pulmonary edema [AD-A256959] Membrane technology: A search for membranes for submarine atmosphere control [AD-A260581] p 266 N93-25904 Oxygen production on the Lunar materials processing ontier p 315 N93-27967 frontier **OXYGEN BREATHING** Effects of different inhalant O2 concentrations on ventilatory and heart rate kinetic responses during p 11 A93-13707 exercise The role of ground level oxygen in the treatment of altitude chamber decompression sickness p 89 A93-18043 An analysis of the respiratory muscle fatigue under resistive loading when breathing gas mixtures containing different amounts of oxygen p 76 A93-18299
An analytical model of the aircrew oxygen breathing evetora p 137 A93-25123 OXYGEN CONSUMPTION Thermogenesis induced by inhibition of shivering during cold exposure in exercise-trained rats p 75 A93-18039 Influence of viscous resistance on heart rate and oxygen uptake during treadmill walking in water p 94 A93-20898 Increased plasma O2 solubility improves O2 uptake of in situ dog muscle working maximally Operation Everest II - Metabolic and hormonal responses to incremental exercise to exhaustion p 115 Energetics of walking and running - Insights from simulated reduced-gravity experiments p 116 A93-21687 The problem of oxygen regimen in extreme conditions p 160 A93-27685 Oxygen regime in the frontal cerebral cortex of monkeys during a two-week space flight p 272 A93-40773 Influence of simulated microgravity on the maximal oxygen consumption of nontrained and trained rats p 323 A93-42192 Arterial oxygen saturation during +Gz acceleration by short-radius centrifuge p 379 A93-49178
Prediction of maximal oxygen uptake from submaximal exercise testing in aerobically fit and nonfit men p 385 A93-52304 OXYGEN ISOTOPES New techniques for positron emission tomography in the study of human neurological disorders p 95 N93-15900 [DE93-002098] OXYGEN MASKS A new protective breathing apparatus p 29 A93-13535

Peroxidative oxidation of lipids and chromosome

SUBJECT INDEX PATTERN RECOGNITION

An analytical model of the aircrew oxygen breathing. New aspects of using hyperbaric oxygenation in aviation Space Shuttle Orbiter oxygen partial pressure sensing and control system improvements [SAE PAPER 921347] system p 137 A93-25123 medicine D 252 A93-36742 Evaluation of test methods and requirements for Biophysical and biochemical mechanisms in synaptic p 305 A93-41506 spiratory protection systems 21 transmitter release PARTICLE ACCELERATORS IAD-A2624661 p 317 N93-28757 IAD-A256340 I p 55 N93-15198 Radiation physics, biophysics, and radiation biology OZONE OXYGEN METABOLISM IDE92-0136731 p 6 N93-12266 Effects of a 1-yr stay at altitude on ventilation, netabolism, and work capacity p 92 A93-20028 Ozone - A new aspect of its effect on microorganisms **PARTICULATES** metabolism, and work capacity p 398 A93-54971 The potential effects of concurrent increases in Potential health hazards from thermal degradation Increased plasma O2 solubility improves O2 uptake of events - Particulate vs. gas phase effects temperature, CO2 and O3 on net photosynthesis, as p 282 A93-41546 in situ dog muscle working maximally ISAE PAPER 9213881 mediated by rubisCO p 111 A93-21684 PARTITIONS (STRUCTURES) I DE92-0194111 p 5 N93-11630 Operation Everest II - Metabolic and hormonal Interdisciplinary research and training program in the responses to incremental exercise to exhaustion plant sciences P p 5 N93-10835 IDF92-0159191 p 115 A93-21685 Characteristics of the effect of inert gases on in vivo PASSENGER AIRCRAFT tissue respiration p 112 A93-23152 PAIN Radiation conditions onboard passenger aircraft p 249 A93-35230 **OXYGEN PRODUCTION** Molecular mechanisms of stress --- of astronauts during Algae and oxygen in earth's ancient atmosphere various phases of their lunar and Martian travels Control of infection in an international airline p 407 A93-52867 p 153 A93-27800 D 49 A93-17443 Comparison of spinal health indicators in predicting **PASSENGERS** A low pressure electrolyzer for the next generation spinal status in a 1-year longitudinal study Upper interior head protection. Volume 1. The submarine p 216 A93-32786 [SAE PAPER 921125] p 291 A93-41316 development of a research test procedure p 194 N93-21537 The effect of pain on task performance: A review of IPB93-113769 | Oxygen generation by static feedwater electrolysis for Space Station Freedom [SAE PAPER 921151] **PATHOGENESIS** LAD-A2543361 p 59 N93-15216 p 293 A93-41335 Understanding mechanisms of carcinogenesis using rat acheal epithelial cells in vitro PALEOBIOLOGY OCAM - A CELSS modeling tool: Description and results The earliest fossil evidence for sexual dimorphism in - Object-oriented Controlled Ecological Life Support [DE92-013510] p 13 N93-10626 p 152 A93-27775 primates Interdisciplinary research and training program in the Multiple evolutionary origins of magnetotaxis in p 298 A93-41413 plant sciences p 153 A93-27799 Test Bed p 5 N93-10835 Algae and oxygen in earth's ancient atmosphere performance - Lettuce crop characterization Viral hepatitis in the US Air Force, 1980 - 1989 p 153 A93-27800 ISAE PAPER 9213911 p 309 A93-41549 p 15 N93-11287 Preservation of biological information in thermal spring Submarine Advanced Integrated Life Support system HIV variability and perspectives of a vaccine deposits - Developing a strategy for the search for fossil (SAILS) program p 16 N93-11294 p 197 p 32 N93-11812 Analysis of disease progression from clinical First skulls of the early Eocene primate Shoshonius A membrane-based subsystem for water-vapor recovery observations of US Air Force active duty members infected cooperi and the anthropoid-tarsier dichotomy from plant-growth chambers p 202 A93-32670 with the Human Immunodeficiency Virus: Distribution of [NASA-CR-177602] p 149 N93-20065 Microfossils of the Early Archean Apex chert - New vidence of the antiquity of life p 272 A93-40308 AIDS survival time from interval censored observations Comparison of portable crewmember protective p 17 N93-11297 evidence of the antiquity of life breathing equipment (CPBE) designs Revision of the Wind River faunas, early Eccene of In vivo and in vitro diagnosis of allergic respiratory [DOT/FAA/AM-93/6] p 310 N93-27121 central Wyoming. IX - The oldest known hystricomorphous rodent (Mammalia: Rodentia) p 328 A93-44903 disease during screening procedures in the Italian Navy: Comparative evaluation of a recent quantitative Oxygen production on the Lunar materials processing p 328 A93-44903 frontier p 315 N93-27967 Chloroflexus aurantiacus and ultraviolet radiation automatized enzyme immunoassay method to dose SPE water electrolyzers in support of the lunar p 21 N93-11314 Implications for Archean shallow-water stromatolites specific laF outpost p 315 N93-27977 p 400 A93-55999 PATHOLOGICAL EFFECTS Hybrid oxygen system PALEONTOLOGY Microwaves and the visual analyzer AD-A2624171 p 317 N93-28464 Geography of end-Cretaceous marine bivalve p 250 A93-35247 OXYGEN SUPPLY EQUIPMENT p 273 A93-41075 Combined effect of head-down tilt and gamma rays on Human factors in design of military aircrafts' oxygen PARABOLIC FLIGHT p 60 A93-14222 p 242 A93-35262 supply equipment the higher nervous activity of rats Cerebral blood flow velocities by transcranial Doppler An analytical model of the aircrew oxygen breathing Structural and cytochemical signs of the development during parabolic flight p 137 system A93-25123 deadaptation, as determined from Acute hemodynamic response to weightlessness during p 252 A93-36724 characteristics Study on environment control and life support p 86 A93-17547 p 149 N93-20413 parabolic flight Artificial gravity augmentation on the moon and Mars technology Dynamic analysis of ocular torsion in parabolic flight Integrated oxygen recovery system p 346 A93-42127 using video-oculography p 3i
PARALLEL PROCESSING (COMPUTERS) p 386 A93-52405 [NASA-CR-192343] p 234 N93-22663 Carboxyalkylated hemoglobin as a potential blood Integrated oxygen recovery system substitute Simulation of excitatory/inhibitory interactions in single AD-A252329 | p 22 N93-11561 [NASA-CR-192982] p 267 N93-26088 auditory neurons Comparison of portable crewmember protective breathing equipment (CPBE) designs **PATHOLOGY** [AD-A253614] p 50 N93-13252 AFRRI reports Combat Automation for Airborne Weapon Systems: [DOT/FAA/AM-93/6] p 310 N93-27121 [AD-A254581] p 49 N93-12649 OT/FAA/AM-93/6]
Evolution of Space Station EMU PLSS technology page-2007/90 p. 312 N93-27790 Man/Machine Interface Trends and Technologies Training, muscle fatigue and stress fractures I AGARD-CP-520 I p 317 N93-28850 p 54 N93-15006 recommendations (AD-A2552771 Pilot decision aiding for weapon delivery: A novel Hybrid oxygen system 27 years armed forces aerospace pathology and approach to fire control cueing using parallel computing o 317 N93-28464 IAD-A2624171 toxicology in the Federal Republic of Germany: p 317 N93-28853 Development, current status, trends and challenges **OXYGEN TENSION** Distribution of oxygen tension in pial arterioles of rats p 126 N93-19696 Enhanced carotid-cardiac baroreflex response and Aircraft accident injuries in the Hellenic Air Force in the under normobaric hyperoxia p 76 A93-18295 elimination of orthostatic hypotension 24 hours after acute Increased plasma O2 solubility improves O2 uptake of p 126 N93-19698 p 216 A93-32781 exercise in paraplegics in situ dog muscle working maximally The prevalence of artificial lens implants in the civil PARASITIC DISEASES p 111 A93-21684 airman population Allergic, Immunological and Infectious Disease Problems p 253 N93-25214 Oxygen tension and water-soluble products of lipid DOT/FAA/AM-92/14) in Aerospace Medicine peroxidation in blood of volunteers in hypobaric hyperoxial p 169 A93-28751 PATIENTS p 14 N93-11283 [AGARD-CP-518] X Ray System, Lightweight Medical (XRSLM) Communicable diseases: A major burden of morbidity [AD-A258159] AD-A258159 p 123 N93-18295
Development and enhancement of a mode of Interactions between Hb, Mg, DPG, ATP, and CI determine the change in Hb-O2 affinity at high altitude and mortality p 18 N93-11300 p 279 A93-41117 Immunization of personnel traveling to a destination in performance and decision making under stress in a real Space Shuttle Orbiter oxygen partial pressure sensing tropical countries: French position p 19 N93-11304 life setting p 123 N93-18363 and control system improvements Recent lessons on the safety and effectiveness of p 305 A93-41506 Automatic detection of seizures with applications [SAE PAPER 921347] malaria chemoprophylaxis in a non-immune population p 254 N93-25592 Lunar base pressure, O2 fraction, and ExtraHabitat p 19 N93-11307 A fiber optic probe for the detection of cataracts Activity suit design p 346 A93-42125 Use of novel adjuvants and delivery systems to improve Effects of chronic hypoxia and exercise on plasma p 254 N93-25593 the humoral and cellular immune response to malaria erythropoietin in high-altitude residents Neuropsychological components of object p 20 N93-11308 vaccine candidate antigens p 331 A93-42191 identification PARKINSON DISEASE **OXYGEN 18** IAD-A261449 p 259 N93-26347 Electromyographic investigations of tremor in aquanauts PATTERN RECOGNITION Comparison of total body water estimates from O-18 p 90 A93-18292 in simulated immersions Contextual change and skill acquisition in visual search and bioelectrical response prediction equations A balanced carbohydrate:protein diet in the management p 218 N93-23734 NASA-TP-3299] Does the rate of change affect performance? p 153 A93-27918 of Parkinson's disease p 178 A93-27187 OXYGENATION

Facilitation of levodopa-induced dyskinesias by dietary

The evaluation of tolerance to serious acute hypoxia

p 203 A93-33029

p 11 A93-13715

carbohydrates

PARTIAL PRESSURE

The role of ground level oxygen in the treatment of

The state of brain oxygenation in guinea pigs breathing

p 89 A93-18043

p 76

A93-18294

altitude chamber decompression sickness

high-density gas mixtures

p 189 A93-27191

p 58 N93-14510

Effects of display luminance on the recognition of color

Psychophysical analyses of perceptual representations

symbols on similar color backgrounds

[AD-A255432]

PAYLOAD INTEGRATION SUBJECT INDEX

A toposcopic investigation of brain electrical activity PERIPHERAL NERVOUS SYSTEM Predicting individual differences in complex skill induced by motion sickness Postoperative hyperbaric oxygen treatment of peripheral acquisition - Dynamics of ability determinants IAD-A2590241 p 124 N93-18952 p 181 A93-28731 Recognition of partially occluded threat objects using 1AD-A2558421 p 52 N93-14084 Predicting skeletal adaptation in altered gravity the annealed Hopefield network p 142 N93-19466 Nerves and tissue repair p 213 A93-30772 environments G-load effects and efficient acoustic parameters for AD-A255299 J p 53 N93-14535 Proposed evaluation framework for assessing operator robust speaker recognition p 146 N93-19775 PERIPHERAL VISION performance with multisensor displays Perception/action: An holistic approach A simple computational model of center-surround p 232 A93-33444 LAD-A2595971 p 235 N93-24067 receptive fields in the retina Timing considerations of Helmet Mounted Display Computer based analysis and synthesis of retinal IAD-A2647231 p 336 N93-30515 p 233 A93-33449 PERMEABILITY [AD-A2605141 Structured interviews for pilot selection - No incremental p 221 N93-24420 Effect of simulated weightlessness on microvessel p 286 A93-39572 Facilitation and interference in identification of pictures validity permeability of various organs in rabbits Helmet slippage during visual tracking - The effect of p 199 A93-30438 IAD-A261484 I p 260 N93-26356 voluntary head movements p 389 A93-49223 Membrane technology: A search for membranes for Spontaneous discovery and use of categorical Meta-analysis of integrity tests: A critical examination submarine atmosphere control of validity generalization and moderator variables [AD-A260581] p 266 N93-25904 p 27 N93-12225 IAD-A2616581 [AD-A254681] p 260 N93-26364 PERSONALITY Computing with neural maps: Application to perceptual and cognitive function Operator workload predictions for the revised AH-64A Individual differences in airline captains' personalities, workload prediction model. Volume 2: Appendixes A communication strategies, and crew performance p 177 A93-27175 [AD-A264056] p 341 N93-30033 through H Representations of shape in object recognition and IAD-A2549391 p 63 N93-12545 Comparing the Cattell 16PF profiles of male and female long-term visual memory Requirements for an automated human factors, manpower, personnel, and training (HMPT) planning tool p 178 A93-27177 commercial airline pilots [AĎ-A264342] p 341 N93-30163 Gremlins: A dozen hazardous thought and behavior An algorithm for simple and complex feature detection: p 134 N93-19709 AD-A258531 p 195 N93-21753 patterns as risk factors From retina to primary visual cortex A cognitive architecture for human performance process The five-factor personality model and naval aviation [AD-A264306] p 337 N93-30897 model research A vision system planner for increasing the autonomy LAD-A260227 L p 225 N93-24319 of the Extravehicular Activity Helper/Retriever Contribution of personality to the prediction of success Predicting radiation induced performance decrements NASA-CR-1933011 p 365 N93-31844 in initial air traffic control specialist training of AH-1 helicopter crews. Volume 2: Evaluation of modeling p 259 N93-26138 **PAYLOAD INTEGRATION** and simulation techniques for predicting radiation induced IDOT/FAA/AM-93/41 Design and evaluation of a payload to support plant Accident proneness: A research review performance decrements growth onboard COMET 1 p 288 N93-28622 [DOT/FAA/AM-93/9] p 351 N93-29484 IAD-A2628721 [SAE PAPER 921389] Selection of personnel for stressful occupations: The Predicting aircrew p 308 A93-41547 training performance with PAYLOADS potential utility of psychophysiological measures as psychometric g Autonomous support for microorganism research in selection tools [AD-A264021] p 340 N93-30026 p 363 N93-32011 space PERFORMANCE TESTS LAD-A264571 I (NASA-CR-192062) p 83 N93-17780 PERSONALITY TESTS Methods for test and evaluation of night vision goggle PEEK integrated helmets p 188 A93-27182 Preliminary investigation on personality of pilots The design of mechanically compatible fasteners for Helmet-mounted systems test and evaluation process p 24 A93-13541 human mandible reconstruction p 253 N93-25569 Predictive validity of an automated personality inventory p 227 A93-30053 PENDULUMS Neurobehavioral test in civil aviation flight personnel for Air Force pilot selection D 179 A93-27452 Influence of animation on dynamical judgments Results of a structured psychiatric interview to evaluate p 223 A93-30443 p 98 A93-20275 p 223 A93-32780 Compensating lags in head-coupled displays using head NASA astronaut candidates PEPTIDES Some personality and aptitude characteristics of Air position prediction and image deflection Role of atrial natriuretic peptide in systemic responses p 388 A93-52301 n 231 A93-31782 Traffic Control Specialist trainees to acute isotonic volume expansion The unique contribution of selected personality tests to p 44 A93-14968 Development of a test protocol for evaluating EVA glove Vagotropic effects of peptides isolated from the brain the prediction of success in naval pilot training of hibernating susliks p 38 p 132 N93-18291 [SAE PAPER 921254] p 298 A93-41424 Atrial natriuretic peptide degradation by CPA47 cells -International application of the DLR test-system: Performance evaluation of candidate space suit Evidence for a divalent cation-independent cell-surface elements for the next generation orbital EMU Continuation of the cooperation with Iberia in pilot proteolytic activity p 155 A93-28726 p 305 A93-41503 ISAE PAPER 9213441 Evaporation cycle experiments -A simulation of A low cost helmet-mounted camera/display system for IDLR-FB-92-121 p 225 N93-24104 salt-induced peptide synthesis under possible prebiotic field testing teleoperator tasks p 408 A93-53122 The five-factor personality model and naval aviation conditions p 354 A93-43792 Development of the Personnel-based System Evaluation candidates Effect of water immersion on renal natriuretic peptide Aid (PER-SEVAL) performance shaping functions p 225 N93-24319 LAD-A2602271 p 26 N93-11779 (urodilatin) excretion in humans [AD-A2528201 p 381 A93-49293 Field test of a computer-driven tool to measure Thermal control systems for low-temperature heat Role of the central nervous system in the control of psychological characteristics of aircrew p 378 A93-51025 rejection on a lunar base hybernation [AD-A264484] p 341 N93-30425 [NASA-CR-191286] p 65 N93-13717 Kinetics of peptide hydrolysis and amino acid PERSONNEL Evaluation and estimation of handling qualities via decomposition at high temperature --- space biochemical Viral hepatitis in the US Air Force, 1980 - 1989 statistical modeling of pilot response data p 411 A93-53289 p 15 N93-11287 p 69 N93-14548 [AD-A255324] A model for the prebiotic synthesis of peptides which Estimates of Human Immunodeficiency Virus (HIV) Validity of clinical color vision tests for air traffic control throws light on the origin of the genetic code and the observed chirality of life p 412 A93-56000 incidence and trends in the US Air Force specialists p 412 A93-56000 p 16 N93-11292 Cytokines as vaccine adjuvants: Interleukin 1 and its Immunological parameters in current and former US Air Stimulus presentation formats and measurement synthetic peptide 163-171 p 20 N93-11309 Force personnel p 16 N93-11295 techniques for the quantification of target detection Neurochemical control of circadian rhythms Neuropsychiatric morbidity in early HIV disease: p 50 N93-13116 LAD-A2550541 Implications for military occupational function 1 AD-A258933 1 p 133 N93-19449 Organization of the human circadian system p 18 N93-11299 Measuring hearing protection device performance using [AD-A264675] p 361 N93-32015 metrosonics db-3100 sound level analyzer Susceptibility in USAF recruits to vaccine preventable PERCEPTION p 18 N93-11301 (dosimeter) diseases The influence of flight experience on midair collision risk AD-A2608521 p 265 N93-25787 Development of the Personnel-based System Evaluation p 180 A93-28707 Aid (PER-SEVAL) performance shaping functions perception Performance measurement systems: A best practices Cognitive function at high attitude p 386 A93-52505 study LAD-A2528201 p 26 N93-11779 p 350 N93-29444 AD-A2621801 Satiation or availability? Effects of attention, memory, Sustaining health and performance in the cold: PERIODIC VARIATIONS and imagery on the perception of ambiguous figures Environmental medicine guidance for cold-weather Long-range anticorrelations and non-Gaussian behavior p 405 A93-55348 p 161 A93-28049 of the heartheat IAD-A2543281 PERCEPTUAL ERRORS p 23 N93-12145 PERIPHERAL CIRCULATION Relation between perception of vertical axis rotation and Body composition and physical performance Limited heat transfer between thermal compartments p 214 A93-32176 vestibulo-ocular reflex symmetry [AD-A255627] p 69 N93-14161 during rewarming in vasoconstricted patients Shape discrimination and the judgement of perfect Walter Reed Army Institute of Research biannual p 88 A93-18036 symmetry - Dissociation of shape from size report Peripheral arterial thrombosis related to commercial p 224 A93-32788 [AD-A255630] p 52 N93-14162 airline flights - Another manifestation of the economy class PERFLUORO COMPOUNDS The efficacy of biographical inventory data in predicting p 215 A93-32775 Increased plasma O2 solubility improves O2 uptake of early attrition in naval aviation officer candidate training Autorosette formation in the peripheral blood of people in situ dog muscle working maximally I AD-A2580251 p 131 N93-17919 with lengthy limitations of motor activity p 111 A93-21684 p 250 A93-35245 Muscle glycogen, fiber type, aerobic fitness, and PERFORMANCE PREDICTION anaerobic capacity of West Coast US Navy Sea-Air-Land Microgravity and orthostatic intolerance - Carotid personnel (SEALs)

hemodynamics and peripheral responses

Japanese and Tibetans at Qinghai Plateau

Effects of high altitudes on finger cooling test in

p 278 A93-39716

p 382 A93-49560

IAD-A2583641

[AD-A258368]

knowledge among recruits

p 121 N93-18209

p 121 N93-18210

The US Navy Healthy Back Program: Effect on back

for Air Force pilot selection

Complex task performance as a basis for developing

Predictive validity of an automated personality inventory

p 186 A93-27148

p 179 A93-27452

cognitive engineering guidelines in adaptive automation

PHOTOSYNTHESIS

SUBJECT INDEX Validation of two temperature pill telemetry systems in PERTURBATION PHOSPHORYLATION Flavine-dependent processes in model prebiological humans during moderate and strenuous exercise Adaptation to transient postural perturbations p 105 N93-16699 [AD-A259068] p 124 N93-19072 INASA-CR-190959 I p 372 A93-47125 Cellular and tissue injury during nonfreezing cold injury Organizational politics, participation in decision-making, PHOTICS and job satisfaction and frostbite Neurophysiological analysis of circadian rhythm IDOT/FAA/AM-92/171 IAD-A2605741 p 254 N93-25900 entrainment p 257 N93-25203 PESTICIDES IAD-A2646811 p 361 N93-32018 Assessing patterns of change in anthropometric Monitoring human tissues for toxic substances dimensions: Secular trends of US Army females, PHOTOCHEMICAL REACTIONS p 173 N93-21498 |PB92-223239| p 173 Regenerable biocide delivery unit, volume 2 1946-1988 Photo and thermal reactions of ferrous hydroxide ... p 265 N93-25628 formation of hydrogen in Archaean ocean relevant to INASA-CR-185701-VOL-21 p 275 N93-27360 p 269 A93-36561 Selection of personnel for stressful occupations: The chemical origin of life potential utility of psychophysiological measures as Ferrous iron oxidation by anoxygenic phototrophic Methods development for total organic carbon selection tools p 271 A93-39280 accountability p 363 N93-32011 A physico-chemical study of some areas of fundamental p 40 N93-12949 NASA-CR-1844381 significance to biophysics Cardiovascular risk factors in an Italian Air Force PHARMACOLOGY p 40 N93-13083 population: Preliminary report IDE92-0199161 p 362 N93-32252 Pharmacological effects of mixture of Eleutherococcus Primary charge separation in isolated photosystem 2 PERSONNEL DEVELOPMENT (ELE) and Elschottzia (ELS) p 11 A93-13710
Pharmacological means of stimulating the work capacity p 11 A93-13710 Meta-analysis of integrity tests: A critical examination of validity generalization and moderator variables reaction centers IDE92-0411281 p 82 N93-17189 of flight personnel engaged in stressful activity IAD-A2546811 p 27 N93-12225 p 45 A93-15173 Investigation of laser-induced retinal damage p 338 N93-31094 Introduction to training decisions modeling technologies: I AD-A264096 I Frontier Symposium on Clinical Pharmacology in Space, The training decisions system | AD-A249862 | 10th, Houston, TX, May 10, 11, 1990, Proceedings PHOTOCONDUCTIVITY p 27 N93-12252 p 83 A93-17527 Flavoproteins as natural prototypes of molecular Human factors research in aircrew performance and Pharmacologic considerations for Shuttle astronauts electronic devices with photocontrolled conductivity training: 1986-1991 p 1 A93-11199 p 85 A93-17537 LAD-A2544551 p 63 N93-12609 New pharmacologic approaches to the prevention of PHOTOELECTRIC EMISSION Diversity in biological research p 85 A93-17538 Kinetic studies of interfacial photocurrents in platinized space/motion sickness Pharmacodynamic aspects of spaceflight p 73 A93-17541 chloroplasts p 42 N93-13700 p 211 N93-25104 Requirements for an automated human factors, LDE93-0023441 PHOTOELECTRICITY manpower, personnel, and training (HMPT) planning tool Optimal sampling theory and population modelling -AD-A258531 p 195 N93-21753 Application to determination of the influence of the Nonlinear optical properties of porphyrin and chlorophyll microgravity environment on drug distribution and PERSONNEL MANAGEMENT dimers studied by degenerated four wave mixing Increasing hits and reducing misses in CRM/LOS cenarios - Guidelines for simulator scenario p 210 N93-24028 p 85 A93-17542 [DE93-006411] Effects of gravity on gastric emptying, intestinal transit, PHOTOELECTROCHEMISTRY p 85 A93-17543 development p 286 A93-39575 and drug absorption Flavoproteins as natural prototypes of molecular Effects of scopolamine on autonomic profiles underlying A longitudinal examination of applicants to the air traffic electronic devices with photocontrolled conductivity p 1 A93-11199 motion sickness susceptibility p 116 A93-24037 control supervisory identification and development Effect of dexamethasone on proliferating osteoblasts PHOTOLYSIS program Inhibition of prostaglandin E2 synthesis, DNA synthesis. [DOT/FAA/AM-92/16] Comet Halley as an aggregate of interstellar dust and p 257 N93-25213 Determinants of performance rating accuracy: A field and alterations in actin cytoskeleton further evidence for the photochemical formation of organics in the interstellar medium p 108 A93-17824 study Water purification, microbiological control, sterilization [AD-A264726] Effect of exercise and bisphosphonate on mineral p 342 N93-30575 balance and bone density during 360 day antiorthostatic PERSONNEL SELECTION and organic waste decomposition using an electrochemical advanced ozonation process Poststrike air traffic control trainees - Biodemographic p 297 A93-41408 Aminohydroxybutane bisphosphonate and clenbuterol [SAE PAPER 921234] predictors of success in selection and screening p 56 A93-15664 prevent bone changes and retard muscle atrophy PHOTONS A new generation of astronauts in space - The astronaut respectively in tail-suspended rats p 271 A93-39703 Stimulation of lettuce productivity by manipulation of Toxicokinetics of inhaled bromotrifluoromethane (Halon diurnal temperature and light iurnal temperature and light p 327 A93-44879 Effects of CO2 and photosynthetic photon flux on yield, selection process p 57 A93-17071 p 278 A93-39705 1301) in human subjects Results of a structured psychiatric interview to evaluate Neuropharmacology of motion sickness and emesis gas exchange and growth rate of Lactuca sativa L. NASA astronaut candidates p 223 A93-32780 A review p 271 A93-39711 'Waldmann's Green' p 397 A93-52723 European astronaut candidates in training in the CIS Protective effects of Rhodiola crenulata on rats under Investigation of laser-induced retinal damage p 256 A93-34593 AD-A264096 J p 338 N93-31094 antiorthostatic position and professional athletes Ab initio pilot training process more efficient than p 327 A93-44843 traditional methods p 387 A93-49276 PHOTOOXIDATION Some personality and aptitude characteristics of Air Comparison of treatment strategies for space motion Flavine-dependent processes in model prebiological Traffic Control Specialist trainees p 388 A93-52301 p 386 A93-52402 p 372 A93-47125 Linear tetrapyrroles (phycobilins) in a model JPRS report: Science and technology. Central Eurasia: A new test of scanning and monitoring ability: Methods p 398 A93-53350 prebiological system and initial results JPRS-ULS-92-0241 o 40 N93-13033 Investigation of laser-induced retinal damage [AD-A249123] The neurochemical and neuropharmacological basis of p 338 N93-31094 Astronaut candidate strength measurement using the Cybex 2 and the LIDO Multi-Joint 2 dynamometers **PHOTORECEPTORS** p 50 N93-13061 [NASA-CR-185679] p 34 N93-12195 INASA-CR-1909571 Photoreceptors regulating circadian behavior: A mouse Autoradiographic distribution and applied Meta-analysis of integrity tests: A critical examination of validity generalization and moderator variables model pharmacological characteristics of dextromethorphan and (AD-A264881) p 337 N93-30908 related antitissue/anticonvulsant drugs and novel p 27 N93-12225 Melatonin, the pineal gland, and circadian rhythms [AD-A254681] p 337 N93-31061 analogs The unique contribution of selected personality tests to [AD-A255607] p 54 N93-15009 **PHOTOSYNTHESIS** the prediction of success in naval pilot training [AD-A258144] AFRRI Reports --- Radiobiology p 132 N93-18291 Stimulation of lettuce productivity by manipulation of p 80 N93-15965 p 327 A93-44879 [AD-A257231] diurnal temperature and light Using constraint satisfaction networks to study aircrew Effects of incandescent radiation on photosynthesis, election for advanced cockpits Enhancement of drug detection and identification by use growth rate and yield of 'Waldmann's Green' leaf lettuce (AD-A258151) of various derivatizing reagents on GC-FTIR analysis p 140 N93-18293 p 357 A93-46468 [AD-A255582] p 95 N93-16041 Stress resistance as a diagnostic category in air traffic controller selection Pharmacokinetics and Pharmacodynamics in Space Effects of CO2 and photosynthetic photon flux on yield, gas exchange and growth rate of Lactuca sativa L. INASA-CP-10048 I p 333 N93-29502 [DLR-FB-92-13] n 219 N93-24092 Hydrogen-rated system for in vitro studies at pressure: Waldmann's Green' p 397 A93-52723 The five-factor personality model and naval aviation Operating procedures and emergency procedures Resource capture by single leaves candidates AD-A264179 p 336 N93-30882 p 5 N93-10461 [AD-A260227] IDE92-0158471 p 225 N93-24319 PHASE MODULATION The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as Selection of astronauts for European space missions Demodulation processes in auditory perception p 225 N93-24345 [AD-A255748] p 54 N93-15053 mediated by rubisCO The European astronauts training programme PHILOSOPHY [DE92-019411] p 5 N93-11630 p 226 N93-24346 Ontology of mind, subjective ontology, and the example Nitrogen control of chloroplast development and Contribution of personality to the prediction of success of temporal expressions in initial air traffic control specialist training n 26 N93-11212 IREPT-92-0181 (DE92-0173921 [DOT/FAA/AM-93/4] p 259 N93-26138 p.39 N93-12768 The lunar community church: Contributions to lunar living Phytoplankton photosynthesis in natural mixed layers Abridged procedural guide to aircrew anthropometric p 39 N93-12871 and to evolution of ethical and spiritual thinking IAD-A2550101 accommodation assessment p 57 N93-14020 Primary charge separation in isolated photosystem 2 [AD-A265220] p 366 N93-32006 reaction centers Selection of personnel for stressful occupations: The Roentgenophosphene as an indicator of the radiation p 82 N93-17189 [DE92-041128] potential utility of psychophysiological measures as excitability of the central nervous system The effects of prolonged growth in elevated CO2 p 325 A93-43078 concentrations in the field on the amounts of different leaf IAD-A2645711 p 363 N93-32011 proteins **PHOSPHORUS** PERSPIRATION Effects of vitamin D and phosphorus level in diet on IDE93-0029401 p 115 N93-19751 Evaluation of two microclimate cooling air vests on a Closed Ecological Life Support Systems (CELSS) Test

bone, skeletal muscle and kidney in suspended rats

p 77 A93-19994

heated mannequin

p 194 N93-21269

[AD-A259410]

p 233 N93-22628

PHOTOTROPISM	
Kinetic studies of interfacial photocurrents in platinized chloroplasts	AFTERRISE: Deep body temperature following exercise
DE93-002344 p 211 N93-25104 Regulation of alternative CO2 fixation pathways in	[AD-A259887] p 218 N93-2398 Utilization of the graded universal testing system to
procaryotic and eucaryotic photosynthetic organisms	increase the efficiency for assessing aerobic and anaerobi
DE93-012109 p 276 N93-29181 PHOTOTROPISM	capacity p 246 N93-2607
Investigation of wheat coleoptile response to phototropic	Combined strength and endurance training: Functions and morphological adaptations to ten weeks of training
stimulations NASA-CR-192157 p 114 N93-18608	[AD-A261059] p 267 N93-2622
PHYSICAL EXAMINATIONS	Exercise/recreation facility for a lunar or Mars analog
Estimates of Human Immunodeficiency Virus (HIV) incidence and trends in the US Air Force p 16 N93-11292	p 352 N93-2973 Bela-adrenergic blockade and lactate metabolism durin exercise at high altitude
Transcutaneous Analyte Measuring Methods (TAMM).	[AD-A263544] p 334 N93-2982
phase 2	Daily exercise routines p 360 N93-3145.
Improved head support stand adjustable by	The lifestyle and dietary consumption patterns of United States Air Force aviators within air training command a
compoundturnbuckle	Randolph Air Force Base, Texas p 369 N93-3225
[AD-D015384] p 55 N93-15249 Guide for aviation medical examiners	Objective improvements obtained by control of diet and
[PB92-219690] p 172 N93-21047	physical training in Spanish Air Force fighter pilots p 369 N93-3225i
Biological parameters and cardiovascular risk factors	PHYSICAL FITNESS
with the flying personnel of the Belgian Armed Forces p 370 N93-32260	Physical fitness as a criterion of readiness fo
Changes in some lifestyle parametres in Norwegian	spaceflights p 98 A93-1841; Cardiovascular responses to lower body negative
pilots as students, and after 6 and 12 years of service	pressure in trained and untrained older men
p 370 N93-32261 PHYSICAL EXERCISE	p 115 A93-21680 Aerobic fitness. I - Response of volume regulating
Characteristics of heart rate response (HRR) in young	hormones to head-down tilt p 167 A93-2872
men during exercise p 10 A93-13706 EFfects of different inhalant O2 concentrations on	Prediction of maximal oxygen uptake from submaxima
ventilatory and heart rate kinetic responses during	exercise testing in aerobically fit and nonfit men p 385 A93-52304
exercise p 11 A93-13707	Higher capillary filtration rate in the calves o
Myosin heavy chain composition in the rat diaphragm - Effect of age and exercise training p 37 A93-14970	endurance-trained subjects during orthostatic stress
The mechanical control system of bone in weightless	p 401 A93-55165 Smoking status and body composition, exercise, dietan
spaceflight and in aging p 94 A93-20657 Operation Everest II - Metabolic and hormonal	intake, and alcohol/caffeine consumption
responses to incremental exercise to exhaustion	[AD-A250648] p 23 N93-11893 A progressive resistance weight training program
p 115 A93-21685	designed to improve the armor crewman's strength
Energetics of walking and running - Insights from simulated reduced-gravity experiments	[AD-A255553] p 53 N93-14556
p 116 A93-21687	Decision making in a dynamic task environment: The effect of time pressure
Cardiovascular responses during recovery from exercise and thermal stress p 212 A93-30282	[AD-A256557] p 58 N93-14602
and thermal stress p 212 A93-30282 Effects of sleep deprivation and exercise on glucose	Exercise during long term exposure to space: Value or exercise during space exploration p 82 N93-16807
tolerance p 281 A93-41165	Muscle glycogen, fiber type, aerobic fitness, and
Effects of dynamic exercise on cardiovascular regulation during lower body negative pressure	anaerobic capacity of West Coast US Navy Sea-Air-Land
p 281 A93-41168	personnel (SEALs) [AD-A258364] p 121 N93-18209
Performance and mood-state parameters during 30-day	Combined strength and endurance training: Functiona
6 deg head-down bed rest with exercise training p 281 A93-41169	and morphological adaptations to ten weeks of training [AD-A261059] p 267 N93-26229
Simulating reduced gravity - A review of biomechanical	Changes in some lifestyle parametres in Norwegian
issues pertaining to human locomotion p 289 A93-41175	pilots as students, and after 6 and 12 years of service p 370 N93-32261
Program development for exercise countermeasures	PHYSICAL WORK
[SAE PAPER 921140] p 292 A93-41327 Mechanisms of improved arterial oxygenation after	Field trial of caffeine on physical performance at altitude
peripheral chemoreceptor stimulation during hypoxic	An attempt to overcome the challenge I AD-A2642601 p 337 N93-30894
exercise p 331 A93-42188	PHYSICIANS
Effects of chronic hypoxia and exercise on plasma erythropoietin in high-altitude residents	A physician's workstation designed for NASA and earth-based applications p 189 A93-28695
p 331 A93-42191	PHYSIOCHEMISTRY
Baroreflex function and cardiac structure with moderate endurance training in normotensive men	Effects of running the Bostom Marathon on plasma concentrations of large neutral amino acids
p 332 A93-44182	p 160 A93-27048
Activity-induced regulation of myosin isoform distribution - Comparison of two contractile activity programs	Structure of a human monoclonal antibody Fab fragment
p 326 A93-44183	against gp41 of human immunodeficiency virus type p 153 A93-28698
Interaction of various mechanical activity models in	Localization of extracellular matrix components in
regulation of myosin heavy chain isoform expression p 327 A93-44184	developing mouse salivary glands by confocal microscopy p 155 A93-28725
Intramuscular pressure and electromyography as	Fires on board aircraft: Toxicological risk in flight
indexes of force during isokinetic exercise	p 126 N93-19694
p 380 A93-49291	PHYSIOLOGICAL DEFENSES Changes in the intensity of free-radical reactions in the
Analysis of individual differences between psychological reactions of humans under combined hypoxic stress	organs of rats under hypokinetic stress, protected by the
p 388 A93-51115	delta-sleep-inducing peptide and its tyrosine-containing analogue p 378 A93-51101
Smoking status and body composition, exercise, dietary intake, and alcohol/caffeine consumption	Physiological stress from chemical defense clothing and
[AD-A250648] p 23 N93-11893	equipment
Exercise during long term exposure to space: Value of	[AD-A255786] p 51 N93-14028 Plasmid encoded virulence of Yersinia
exercise during space exploration p 82 N93-16807	[FOA-B-40419-4.4] p 275 N93-28199
Design of a resistive exercise device for use on the Space Shuttle	PHYSIOLOGICAL EFFECTS Subjective and behavioral effects associated with
[NASA-CR-192079] p 108 N93-17805	repeated exposure to narcosis p 7 A93-10327
Muscle glycogen, fiber type, aerobic fitness, and	Effects of hypoxemia at sea level and high altitude on
anaerobic capacity of West Coast US Navy Sea-Air-Land personnel (SEALs)	sodium excretion and hormonal levels p 8 A93-10332 The influence of prior exercise at anaerobic threshold
[AD-A258364] p 121 N93-18209	on decompression sickness p 8 A93-10333
Two techniques for measuring locomotion impact forces	The effect of low-intensity electromagnetic

p 217 N93-23410

p 378 A93-51101 siological stress from chemical defense clothing and 2557861 p 51 N93-14028 mid encoded virulence of Yersinia p 275 N93-28199 3-40419-4.4] OGICAL EFFECTS jective and behavioral effects associated with ed exposure to narcosis p 7 A93-10327 cts of hypoxemia at sea level and high altitude on excretion and hormonal levels p 8 A93-10332 influence of prior exercise at anaerobic threshold p 8 A93-10333 compression sickness low-intensity of electromagnetic effect eter-wave radiation on the rat cardiovascular m p 2 A93-12861 system

SUBJECT INDEX The effect of cortical vestibular area stimulation on the activity of the neurons of lateral vestibular nuclei during D 2 A93-12863 vibration The effect of the activation of the sympatho-adrenal system on catecholamine inactivation in rat lungs p 2 A93-12864 Preliminary study on the physiological changes and tolerance in ground squirrels under several specific xperimental conditions p 2 A93-13532
Preliminary observation of influences of three forms of experimental conditions weightlessness on hemorheological p 3 A93-13538 characteristics in rabbit Effects of oxygen on regulation of cerebral blood flow in rabbits adapted to hypoxia p 3 A93-13545 Effects of antimotion sickness drug mixture B on

ultrastructures of cerebral and cerebellar cortexes in p 10 A93-13704 suspended rabbits Effects of +Gz stress on medium- and long-latency p 11 A93-13708 auditory evoked responses Pharmacological effects of mixture of Eleutherococcus (ELE) and Elscholtzia (ELS) p 11 A93-13710 Experimental study of volatile metabolites of human p 11 A93-13711 body Effect of hypergravity on astronauts in space flight

p 48 A93-16254 A device for the prolonged restraint of primates in p 77 A93-18302 closed-space conditions p 77 A93-18302 Development of K.E. Tsiolkovsky's ideas on the

interaction between space, nature, and man p 90 A93-18408 Windblast tolerance of human thorax and abdomen p 91 A93-19992

EEG changes in man during motion sickness induced by parallel swing p 92 A93-19996 A physiological signal acquisition and processing system for bed-rest laboratory p 103 A93-19998 T wave changes in humans and dogs during p 92 A93-20026 experimental dives Heart and lung alterations in neonatal rats exposed to CO or high altitude p 77 A93-20027 Differential effects of long-term hypoxia

norepinephrine turnover in brain stem cell groups p 78 A93-20030

Energy expenditure climbing Mt. Everest

p 92 A93-20031 Effects of acute hypoxia on renal and endocrine function at rest and during graded exercise in hydrated subjects p 93 A93-20035

NASA plans and opportunities --- space flight activities throughout the 1990s p 79 A93-20652 Cardiovascular physiology in space flight

p 93 A93-20654

Research on sleep, circadian rhythms and aging Applications to manned spaceflight p 94 A93-20658 Dynamics of normalization of some behavioral and neurochemical disturbances in rats caused by the deprivation of the paradoxical sleep stage

p 111 A93-23074 Psychophysiological factors which impair the professional reliability of a pilot in emergency situations p 129 A93-23150

Effect of prolonged antiorthostatic bed rest hypokinesia on functional properties of the neuromuscular system in humans p 116 A93-23151 humans Response of the circadian system to 6 deg head-down p 117 A93-24045 tilt bed rest

The physiological consequences of simulated helicopter flight in NBC protective equipment p 117 A93-24049 Influence of microgravity on immune system and genetic p 160 A93-26572

Self-organizing character of alpha wave in EEG due to acute hypoxic hypoxia in normal subjects

p 213 A93-30436 Effect of simulated weightlessness on microvessel permeability of various organs in rabbits

p 199 A93-30438 The effects of prolonged weightlessness and reduced

gravity environments on human survival p 214 A93-30773

Human biorhythms following interregional travel (with reference to Novosibirsk-Vladivostok flights)

A93-35214 Features of the effect of hypokinesia on cardiac activity in rats with high and low spontaneous motor activity

p 240 A93-35224 Accumulation of calcium ions in the myocardial sarcoplasmic reticulum of restrained rats exposed to a p 240 A93-35225 pulsed electromagnetic field Central neurophysiological and neurochemical vomiting mechanisms (Review of the literature)

p 240 A93-35232 Psychophysiological principles of flight training for actions in nonroutine situations p 256 A93-35233 Data bank establishment principles as applied to the problem of physiological norms in space medicine p 249 A93-35234

[NASA-TP-3305]

SUBJECT INDEX Functional state of the cardiovascular system of the cosmonauts of the sixth primary mission on the Mir station p 249 A93-35238 Age-related changes in hemoglobin and erythrocyte levels p 250 A93-35250 Psychosomatic status and flying skill during geomagnetic isturbances p 257 A93-35251 Features of an ethanol effect in operators with different states of skin tissue basophils p 250 A93-35252 Metabolism in cosmonauts - Results of biochemical blood analyses for crew members of seven primary missions on the Mir orbital station p 250 A93-35254 Effect of stays at medium-mountain attitude on the maintenance of the good health and high physical work capacity of cosmonauts over a prolonged period of time p 250 A93-35255 Some indices of humoral immunity in Rhesus monkeys under the effect of extreme space flight factors p 241 A93-35258 Healing of fractured bone in rats during readaptation following 14-day suspension p 241 A93-35260 Effect of low-frequency vibration on the activity of dehydrogenases in neurones of the nucleus vestibularis p 242 A93-35670 anterior of rats The state of the endocrine system of rats of different age under conditions of immobilization stress and biomos administration p 242 A93-35671 Peroxidative oxidation of lipids and chromosome aberrations in mice after repeated exposures to a helium-oxygen respiration mixture under hyperbaric conditions p 243 A93-35672 Effects of high altitudes on finger cooling test in Japanese and Tibetans at Qinghai Plateau p 382 A93-49560 Does drinking protect against mountain sickness? p 382 A93-49565 The effects of Benadryl and Hismanal on mood physiological measures, antihistamine detection, and subjective symptoms p 385 A93-52302 A prospective evaluation of stress fractures/overuse injuries in a population of West Point cadets [AD-A252427] Metabolic factors influencing myocardial recovery from acidosis (CiC3) [AD-A252376] An overview of gravitational physiology [NASA-TM-102849] Physiological effects of positive pressure ventilation AD-A2548091 [AD-A255785] [NASA-TM-108040] [DE93-005675] Neuroscience discipline science plan [NASA-TM-108041] p 128

p 49 N93-12751 Thermal stress in US Air Force operations p 51 N93-14027 Cardiopulmonary discipline science plan p 125 Health effects of low-frequency electric and magnetic p 127 N93-19838

Regulatory physiology discipline science plan [NASA-TM-108038] p 115 N93-19891 Musculoskeletal discipline science plan p 128 [NASA-TM-108039] N93-19892

p 13 N93-10709

p 14 N93-10796

p 35 N93-12319

N93-19648

N93-19882

Space life sciences overview N93-21074 p 158 Cerebral autoregulation in microgravity p 173 N93-21112

Micromotional studies of utricular and canal afferents [NASA-CR-192703] p 207 N93-22800 Effects on physiology and performance of wearing the aviator NBC ensemble while flying the UH-60 helicopter

flight simulator in a controlled heat environment [AD-A259909] p 235 N93-23995 Physiological experiments within the project AustroMir p 219 N93-24354

Influence of microgravity on immune system and genetic N93-24370 Telescience testbedding for physiological experiments

under hypobaric hypoxic conditions p 220 N93-24398 The acute inhalation toxicity of pyrolysis products of halon 1301

p 254 N93-25629 1AD-A2608741 Growth factor involvement in tension-induced skeletal muscle growth

[NASA-CR-193023] p 282 N93-27113 Variations time-to-incapacitation carboxyhemoglobin values in rats exposed to two carbon monoxide concentrations

[DOT/FAA/AM-93/7] p 274 N93-27152 Variations in time-to-incapacitation and blood cynanide values for rats exposed to two hydrogen cyanide gas concentrations

IDOT/FAA/AM-93/81 p 283 N93-27158 Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757

Evaluation of personal cooling systems in conjunction with explosive ordnance disposal suits

p 350 N93-29471 [AD-A262862] Issues on human acceleration long-duration space flights tolerance after

[NASA-TM-104753] p 334 N93-29651 The Environmental Symptoms Questionnaire (ESQ):

Development and application IAD-A2641271 p 335 N93-30196 Acquisition of physiological data during G-induced Loss

of Consciousness (G-LOC) IAD-A2644921 p 335 N93-30400

Hydrogen-rated system for in vitro studies at pressure: Operating procedures and emergency procedures IAD-A2641791 p 336 N93-30882

Survey of smoking habits in the Spanish Air Force p 370 N93-32262

Human factors and the safety of flights: The importance of the management of sleep PHYSIOLOGICAL FACTORS p 371 N93-32267

Problems of medical support during extravehicular activity during flights to Mars p 90 A93-18411 of readiness for Physical fitness as a criterion spaceflights p 98 A93-18412 Influence of posture and prolonged head-down tilt on cardiovascular reflexes p 161 A93-28677 Cognitive factors in the air events of the Air Force during p 134 N93-19682 the last decade Pharmacokinetics and Pharmacodynamics in Space [NASA-CP-10048] p 333 N93-29502 Cardiovascular risk factors in an Italian Air Force p 362 N93-32252 population: Preliminary report Nutritional and lifestyle status of 50 pilots of the p 369 N93-32255 Portugese Air Force Biological parameters and cardiovascular risk factors

with the flying personnel of the Belgian Armed Forces p 370 N93-32260

PHYSIOLOGICAL RESPONSES

The adrenalin/noradrenalin and the alpha/beta adrenoreceptor correlations in the myocardium and the adrenergic chronotropic and ionotropic reactions under extreme conditions and during adaptation

p 1 A93-10125 The response of medullar respiratory neurons to the stimulation of the amygdaloid nuclei under hypoxia

A93-12860 p 2 A study of biological effects and characteristics of dynamic responses of organism on landing impact

p 10 A93-13533 Response characteristics of semicircular canal in cats under linear acceleration p 3 A93-13536 Characteristics of heart rate response (HRR) in young p 10 A93-13706 men during exercise EFfects of different inhalant O2 concentrations on ventilatory and heart rate kinetic responses during p 11 A93-13707 exercise Effects of +Gz stress on medium- and long-latency auditory evoked responses p 11 A93-13708 The effects of exposure to 50 mT ELF magnetic fields or 96 h on rabbit EEG p 4 A93-13712
Identification of degree of head injury caused by impact and sin dog and sobbit for 96 h on rabbit EEG

loads in dog and rabbit p 4 A93-13720 Altered baseline blood volume and the norepinephrine response to stress in humans p 43 A93-14123 Functional state of the vegetative nervous system in women undergoing high-altitude readaptation to 760 m above sea level adaptation and

p 44 A93-15165 Subjective reactions and objective assessment of the auditory and ventilatory functions of the middle ear during hanges in atmospheric pressure p 45 A93-15174
Psychophysiological characteristics of the activity of changes in atmospheric pressure flight personnel during training on VTOL aircraft

p 45 A93-15175 Behavioral adaptation to sustained hypobaric hypoxia manifested by timing behavior in rats.

p 37 A93-15526 Supporting human exploration in space - Biomedical p 48 A93-17428 Motor activity of animals under elevated pressure

p 75 A93-18290 Local blood supply of the brain of guinea pigs developing the high-pressure neural syndrome p 76 A93-18293 Distribution of oxygen tension in pial arterioles of rats p 76 A93-18295 under normobaric hyperoxia Polyphosphoinositide

neurotransmitters after an exposure to a helium-oxygen atmosphere at a high pressure p 76 A93-18296 Comparison between VDV and a(rms) using simulated p 91 A93-19991

Effects of +Gy stress on human body

p 92 A93-19997 Increased normoxic ventilation induced by repetitive hypoxia in conscious dogs p 79 A93-20037 Modulation of respiratory responses to carotid sinus nerve stimulation by brain hypoxia p 79 A93-20038

Regional changes in muscle mass following 17 weeks of bed rest p 93 A93-20039 p 94 A93-20659 Sleep and circadian rhythms Study of the functioning of the central and the peripheral contours of the thermoregulation system using a thermophysical model of the rabbit body

p 111 A93-23075 Spectral analysis of the electroencephalographic p 116 A93-24041 response to motion sickness Cardiovascular response to lower body negative ressure before, during, and after ten days head-down p 162 A93-28681 tilt bedrest

Half-squaring in responses of cat striate cells p 157 A93-28748

Histochemical and contractile responses of rat medial gastrocnemius to 2 weeks of complete disuse

p 157 A93-28752

Cardiac bioelectric activity in healthy men during a 370-day head-down tilt experiment p 247 A93-35208 Lipid peroxidation and the antioxidant defense system in rats after a 13-day flight on the Cosmos-1887 biosatellite p 239 A93-35210 Hematologic status of rats born and grown in a ypergravity environment p 239 A93-35212 hypergravity environment A comparative analysis of the bone marrow cell

composition in rats following a long-duration continuous or interrupted exposure to a hypogeomagnetic field p 240 A93-35213

Informative value of the rerespiration method for evaluating the functional resources of the cardiorespiratory system during the simulation of certain flight factors p 248 A93-35222

Early andrological effects in rats under the combined effect of irradiation and vibration p 242 A93-35263 Human performance and physiological function during a 24-hr exposure to 1 percent bromotriftuoromethane p 277 A93-39704 (Halon 1301)

The prediction of the adaptation of circadian rhythms p 278 A93-39714 to rapid time zone changes Interactions between Hb, Mg, DPG, ATP, and CI determine the change in Hb-O2 affinity at high altitude

p 279 A93-41117 Influence of in vivo hypobaric hypoxia on function of lymphocytes, neutrocytes, natural killer cells, p 280 A93-41123 Influence of simulated microgravity on the maximal oxygen consumption of nontrained and trained rats

p 323 A93-42192 Adjustable temperature level of a physiological thermostat and the feasibility of its precise maintenance

p 324 A93-43036 Mechanisms of the antihypoxic effect of taurine

p 325 A93-43073 Effect of hypoxic hypoxia on the immune response and some factors of nonspecific resistance of human and p 325 A93-43074 animal organisms Roentgenophosphene as an indicator of the radiation excitability of the central nervous system

p 325 A93-43078 Quantitative EMG analysis in soleus and plantaris during hindlimb suspension and recovery p 326 A93-44176 Muscle glucose uptake in the rat after suspension with single hindlimb weight bearing p 326 A93-44178 Spaceflight on STS-48 and earth-based unweighting produce similar effects on skeletal muscle of young rats p 326 A93-44179

Behavioral asymmetries of psychomotor performance in rhesus monkeys (Macaca mulatta) - A dissociation between hand preference and skill p 339 A93-44923 The effect of G-experience on heart rate during +Gz p 333 A93-45322 loading

The human EEG correlates during many-sided peripheral exposure to an alternating magnetic field p 363 A93-46966

Arterial pulse pressure and vasopressin release in humans during lower body negative pressure p 360

Effect of spaceflight on human protein metabolism p 360 A93-47097

Altered gravity conditions affect early EGF-induced signal transduction in human epidermal A431 cells p 376 A93-49214

Immunocytochemical localization of atrial natriuretic factor (ANF)-like peptides in the brain and heart of the treefrog Hyla japonica - Effect of weightlessness on the distribution of immunoreactive neurons and cardiocytes p 377 A93-49561

Reduction of postprandial lipemia after acute exposure to high altitude hypoxia p 382 A93-49567 Effects of spaceflight on the musculoskeletal system NIH and NASA future directions p 383 A93-49568 Respiratory changes and structure of sleep in young high-altitude dwellers in the Andes of Peru

p 383 A93-49569

Hemodynamic effects of altitude exposure and oxygen An annotated bibliography of research involving women, Application of contrasting temperatures as a method administration in chronic obstructive pulmonary disease conducted at the US Army Research Institute of of preadapting pilots to the conditions of a hot climate p 383 A93-49571 p 45 A93-15166 Environmental Medicine IAD-A2654971 p 360 N93-31917 Functional adaptation of different rat skeletal muscles Limitations to the study of man in space in the U.S. to weightlessness p 377 A93-49575 p 213 A93-30285 PHYTOPLANKTON space program Immune and physiological mechanisms of hypoxic Phytoplankton photosynthesis in natural mixed layers Hemodynamic status of humans during a graded reactions p 39 N93-12871 p 384 A93-51116 IAD-A2550101 p 248 A93-35221 orthostatic test Nocturnal pituitary hormone and renin profiles during New approaches to the measurement of chlorophyll, Morphological analysis of the hepatic structures in p 387 A93-52619 related pigments and productivity in the sea [NASA-CR-190879] p 42 chronic heat exposure experimental animals after infrasonic exposure Shortening velocity and calcium sensitivity of single p 42 N93-13612 p 240 A93-35240 fibers from hindlimb suspended muscle in rats How do zooplankton feed? A critical microgravity Evaluation of spontaneous baroreflex response after 28 p 398 A93-55329 p 158 N93-21097 days head down tilt bedrest p 386 A93-52404 Motion and space sickness **PHYTOTRONS** [ISBN 0-8493-4703-3] p 402 A93-55929 Effects of unilateral selective hypergravity stimulation Computer modeling of the Variable Pressure Growth p 386 A93-52407 on gait Chamber using the CASE/A simulation package |SAE PAPER 921354| p 306 AS Motion sickness and evolution p 399 A93-55930 Statistical prediction of space motion sickness p 306 A93-41513 Animal models in motion sickness research Plant growth modeling at the JSC variable pressure p 403 A93-55943 p 399 A93-55936 Physiology of motion sickness symptoms International application of the DLR test-system: rowth chamber - An application of experimental design Continuation of the cooperation with Iberia in pilot p 307 A93-41515 ISAE PAPER 9213561 p 403 A93-55939 Autogenic-feedback training - A treatment for motion A membrane-based subsystem for water-vapor recovery selection p 404 A93-55946 p 225 N93-24104 and space sickness IDLR-FB-92-121 from plant-growth chambers Eye movements and visual information processing p 149 N93-20065 Pilot Candidate Selection Method (PCSM): What makes INASA-CR-1776021 p 24 N93-10278 Growing wheat to maturity in reduced gas pressure it work? p 277 N93-29216 Physiological analyses of the afferents controlling brain [AD-A262871] p 340 N93-29481 [NASA-CR-193245] neurochemical systems PILOT ERROR p 360 N93-31455 Daily exercise routines [AD-A253185] p 14 N93-11146 Pilot performance with blood alcohol concentrations PHYSIOLOGY Mechanisms of immune failure in burn injury p 15 N93-11285 below 0.04 percent p 46 A93-16151 Chronobiology in a moon-based chemical analysis and Evaluation of the efficiency of the pilot's control activity p 48 A93-17439 physiologic monitoring laboratory Use of novel adjuvants and delivery systems to improve Identification of a critical period for motor development p 100 A93-18347 Behavioral validation of a hazardous thought pattern p 176 A93-27142 the humoral and cellular immune response to malaria p 157 A93-28764 in neonatal rats vaccine candidate antigens p 20 N93-11308 Testing primates with joystick-based automated instrument Effect of hemorrhage on cardiac output, vasopressin, Response to automated function failure cue - An apparatus - Lessons from the Language Research Center's aldosterone, and diuresis during immersion in men operational measure of complacency Computerized Test System p 202 A93-32651 [NASA-TM-103949] p 176 A93-27147 p 6 N93-12014 Effects of refrigerating preinoculated Vitek cards on An overview of gravitational physiology 'And we were tired' fatigue and aircrew errors microbial physiology and antibiotic susceptibility INASA-TM-1028491 n 35 N93-12319 p 264 A93-37070 [SAE PAPER 921214] p 273 A93-41390 Functional MRI studies of human vision on a clinical Modeling human response errors in synthetic flight Mechanisms of immune failure in burn injury simulator domain image p 141 N93-19464 p 15 N93-11285 [DE92-017448] Effects of medium blood alcohol levels on pilots' p 49 N93-12566 Biomedical Polar Research Workshop Minutes performance in the Sea King Simulator MK-41 Phytoplankton photosynthesis in natural mixed layers p 81 N93-16799 INASA-TM-1080261 p 39 N93-12871 [AD-A2550101 p 125 N93-19683 Summary of presentation for research on social AFRRI Reports --- Radiobiology Pilot intent and error recognition as part of a knowledge structure, agreement, and conflict in groups in extreme [AD-A257231] p 318 N93-28855 p 80 N93-15965 p 99 N93-16801 based cockpit assistant PILOT PERFORMANCE and isolated environments The Proceedings of the Hypobaric Decompression Exercise during long term exposure to space: Value of Sickness Workshop Effects of 2 mg and 4 mg atropine sulfate on the performance of U.S. Army helicopter pilots exercise during space exploration p 82 N93-16807 p 123 N93-18362 [AD-A257612] A review of models of the human temperature regulation Effect of aerobic capacity on Lower Body Negative p 7 A93-10326 Pressure (LBNP) tolerance in females An assessment of Turkish Air Force pilots' anxiety and IAD-A2580231 p 120 N93-17918 p 23 A93-10334 [NASA-TP-3298] p 128 N93-20318 Abstracts of papers presented at the annual meeting depression levels Physiological responses to wearing the space shuttle disorientation and of the Society of General Physiologists Spatial dysfunction launch and entry suit and the prototype advanced crew p 121 N93-18211 orientation/equilibrium reflexes - Aeromedical evaluation [AD-A257718] p 8 A93-10336 p 29 A93-13413 escape suit compared to the unsuited condition The role of central monoaminergic systems in arousal and considerations p 149 N93-20319 Keeping the pilot in the loop and selective attention Cerebral autoregulation in microgravity Preliminary investigation on personality of pilots LAD-A258500 L p 122 N93-18264 p 173 N93-21112 Development and enhancement of a mode of p 24 A93-13541 A reappraisal of aging and pilot performance Aimed arm movements under changed gravity performance and decision making under stress in a real p 193 N93-21113 p 56 A93-15663 Respiratory response to varying degrees of tilt and lower Pilot performance with blood alcohol concentrations 1AD-A2577961 o 123 N93-18363 p 173 N93-21114 below 0.04 percent body negative pressure Toxicological investigations of flight accidetns: Findings p 46 A93-16151 A demonstration of motion base design alternatives for Success rate analysis of Navy SERGRAD Flight and methods p 126 N93-19695 the National Advanced Driving Simulator Training p 56 A93-16152 Aircraft accident injuries in the Hellenic Air Force in the p 236 N93-24490 INASA-TM-1038811 p 126 N93-19698 The efficiency of a prophylactic-rehabilitational treatment of civil-aviation flight crews p 91 A93-18415 last 20 years Autonomic physiological data associated with simulator The influence of individual sensivity to stress on the Preclinical cardiovascular and neurological behavior (attitude and performance) of avoidance of an INASA-CR-1776091 ccident p 134 N93-19705
Contribution of the analysis of ocular activity occupation-related pathological symptoms in helicopter p 222 N93-24738 p 91 A93-18416 JPRS report: Science and technology. Central Eurasia: pilots Life sciences Ergonomic aspects of presentation (complementary to the electroencephalographic analysis) IJPRS-ULS-92-0221 p 253 N93-25407 to the detection of low vigilance in instances of piloting piloting-navigation information p 101 A93-18531 Metabolic response of environmentally isolated Psychophysiological factors which impair the a vehicle p 127 N93-19708 microorganisms to industrial effluents: Use of a newly Improved inhalation technology for setting safe exposure professional reliability of a pilot in emergency situations p 129 A93-23150 described cell culture assay p 245 N93-26066 p 174 N93-22164 levels for workplace chemicals Bibliography of the Biosciences Division: 1986 to Measuring performance decrements in Secondary injury factors and preventative treatment personnel infected with the human immunodeficiency p 283 N93-27409 p 130 A93-25209 The use of electrophysiological and cognitive variables IDCIEM-92-201 o 209 N93-23343 A linear, time-varying simulation of the respiratory tract HUD climb/dive ladder configuration and unusual in the assessment of degradation during periods of attitude recovery p 185 A93-27129 system sustained wakefulness The effect of roll-stabilized sensor information on pilot 1AD-A2630331 p 283 N93-27923 IDE93-0045151 p 218 N93-24009 performance p 175 A93-27130 Columbus payload requirements in human physiology Pharmacokinetics and Pharmacodynamics in Space Individual pilot differences related to situation n 220 N93-24386 p 333 N93-29502 INASA-CP-100481 p 175 A93-27137 awareness Autonomic physiological data associated with simulator Beta-adrenergic blockade and lactate metabolism during Insights into pilot situation awareness using verbal exercise at high altitude INASA-CR-1776091 p 222 N93-24738 protocol analysis p 175 A93-27138 p 334 N93-29820 LAD-A2635441 Workload or situational awareness? TLX vs. SART for aerospace systems design evaluation --- Task Load Index p 175 A93-27139 Anatomy and physiology of plant conductive systems Trial of emergency ration of the Spanish Air Force p 245 N93-25877 [PB93-156032] p 368 N93-32247 Investigation into the common mode rejection ratio of Torsional vestibulo-ocular reflex measurements for The effect of type of task, degree of integration, and the physiological signal conditioner circuit identifying otolith asymmetries possibly related to space p 245 N93-26073 modality on the performance of concurrent tasks motion sickness susceptibility p 175 A93-27140 Physiological indices of mental workload INASA-CR-1933041 p 363 N93-32364 p 260 N93-26391 [AD-A261692] Target designation in a perspective view, 3-D map using PHYSIOLOGICAL TESTS a joystick, hand tracker, or voice p 186 A93-27145 Pharmacokinetics and Pharmacodynamics in Space p 333 N93-29502 low-intensity [NASA-CP-10048] Response to automated function failure cue - An The effect of electromagnetic millimeter-wave radiation on the rat cardiovascular Evaluation of dried storage of platelets for transfusion: operational measure of complacency p 2 A93-12861 p 176 A93-27147 Physiologic integrity and hemostatic functionality [AD-A263240] p 334 N93-29620 The prospects for the improvement of medical Complex task performance as a basis for developing monitoring of the health of flight personnel in a military Melatonin, the pineal gland, and circadian rhythms cognitive engineering guidelines in adaptive automation

p 337 N93-31061

p 186 A93-27148

p 10 A93-12969

[AD-A264099]

operator trainees future disturbances research takeoffs abilities among aviation ground personnel and pilots The problem of the pilot's professional reliability Mental workload assessment in the cockpit: Feasibility of using electrophysiological measurements, phase 1 IAD-A2541381 KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation [AD-A253931] Relating flying hours to aircrew performance: Evidence for attack and transport missions [AD-A253988]

Relating cognitive

aoaales

[AD-A254983]

[AD-A254939]

[AD-A255324]

[AD-A256245]

performance in early HIV infection

Selective factors affecting rotary

statistical modeling of pilot response data

safety-pilot grading of flight performance

SUBJECT INDEX Colour head-up displays - Help or hindrance? p 187 A93-27154 Performance differences in psychomotor and dichotic listening tests among landing craft air cushion vehicle [AD-A258012] p 177 A93-27174 Individual differences in computerized test performance for systems integration in cockpit management [AD-A258186] p 177 A93-27176 Testing a subjective metric of situation awareness p 178 A93-27183 Human factors issues in the use of night vision p 189 A93-27193 [AD-A258199] The effect of low blood alcohol levels on pilot skills performance in a series of simulated approach and landing I AD-A258473 I p 179 A93-27453 Pilot interaction with cockpit automation - Operational experiences with the Flight Management System p 189 A93-27455 Helmet-mounted systems technology planning for the p 227 A93-30052 Color helmet display for the tactical environment - The LAD-A259909 L pilot's chromatic perspective p 227 A93-30058 Psychophysiological principles of flight training for actions in nonroutine situations p 256 A93-35233 I AD-A2602041 Psychosomatic status and flying skill during geomagnetic sturbances p 257 A93-35251 (AD-A260280) Alcoholism and treatment in airline aviators - One company's results p 257 A93-35499 Helmet Mounted Display symbology integration p 263 A93-35914 The impact of visual noise on spatial orientation p 257 A93-36229 Influence of aging and practice on piloting tasks p 286 A93-39708 Flight deck automation and pilot workload [SAE PAPER 921132] 0.291 A93-41320 Toward a flight deck automation philosophy for the Boeing High Speed Civil Transport ISAE PAPER 9211331 p 291 A93-41321 A study of decision making and performance in rejected |SAE PAPER 921134| p 287 A93-41322 A cognitive classification of pilot performance in air p 347 A93-42814 Failure mode workload theory and planning p 349 A93-42848 A procedure for estimating the variables of the working-condition space of a man-machine system for the p 364 A93-45685 control of a moving object The effects of history and predictive information on the Human ability of the transport aircraft pilot to predict an alert p 365 A93-46810 Helmet slippage during visual tracking - The effect of p 389 A93-49223 voluntary head movements Flight crew sleep during multiple layover polar flights p 380 A93-49226 The time-course of alcohol impairment of general aviation pilot performance in a Frasca 141 simulator p 384 A93-52299 information Modeling strategic behavior in human-automation interaction - Why an 'aid' can (and should) go unused p 394 A93-52502 Virtual landings --- developing Enhanced Vision Systems p 410 A93-54868 Flight leads and crisis decision-making p 404 A93-55161 Evaluation of zolpidem on alertness and psychomotor

I AD-A2628721 IAD-A2638741 LAD-A264484 L I AD-A2634581 IDLR-FR-92-291 control

p 401 A93-55163

p 410 A93-55334

p 25 N93-10662

p 30 N93-10713

p 25 N93-10719

military aviator

p 17 N93-11298

p 35 N93-12508

p 63 N93-12545

p 69 N93-14548

p 58 N93-14600

wing aviator

function to

performance with symbology superimposed on night vision

Operator workload predictions for the revised AH-64A

Evaluation and estimation of handling qualities via

The relationship between computer scoring and

workload prediction model. Volume 2: Appendixes A

[AGARD-CP-533] Nutritional assessment of United States tactical air command pilots

healthy trainees of an Italian Air Force military school p 368 N93-32248

Monitoring of pilot actions as part of a knowledge-based system for pilot assistance p 59 N93-15184 Effects of terfenadine and diphenhydramine on brain activity and performance in a UH-60 flight simulator

p 119 N93-17817 Flight director information and pilot performance in instrument approaches

p 131 N93-17857 An analysis of a sustained flight operation training mission in Navy attack aircraft

p 131 N93-18205 Automatic information processing and high performance

p 132 N93-18273 Modeling the performance of the human (pilot) interaction in a synthetic flight domain: Information theoretic approach p 141 N93-19465

Effects on physiology and performance of wearing the aviator NBC ensemble while flying the UH-60 helicopter flight simulator in a controlled heat environment

p 235 N93-23995 Attention factors associated with head-up display and helmet-mounted display systems

n 235 N93-24001 Attitude awareness enhancements for the F-16 head-up

p 236 N93-24168 Age 60 Project: Consolidated database experiments p 314 N93-27851 | HS-TR-8025-3C(R2) | Combat Automation for Airborne Weapon Systems: Man/Machine Interface Trends and Technologies

p 317 N93-28850 I AGARD-CP-5201 Pilot decision aiding for weapon delivery: A novel approach to fire control cueing using parallel computing p 317 N93-28853

Pilot intent and error recognition as part of a knowledge p 318 N93-28855 based cockpit assistant The design and development of the new RAF standard p 318 N93-28856 **HUD** format

Symbology for head up and head down applications for highly agile fighter aircraft: To improve spatial awareness, trajectory control, and unusual attitude recovery, part 1 p 318 N93-28857

The quest for an integrated flying helmet p 319 N93-28860

The physiological limitations of man in the high G p 319 N93-28861 environment Oculo-motor responses and virtual image displays

p 319 N93-28862 capabilities and limitations in situation p 319 N93-28863

Predicting radiation induced performance decrements of AH-1 helicopter crews. Volume 2: Evaluation of modeling and simulation techniques for predicting radiation induced performance decrements

p 351 N93-29484 An evaluation of B-1B pilot performance during simulated

instrument approaches with and without p 353 N93-29888

Field test of a computer-driven tool to measure psychological characteristics of aircrew p 341 N93-30425

The effects of superimposing symbology on a simulated night vision goggle display

p 354 N93-30590 Training effectiveness assessment: Methodological problems and issues p 342 N93,30684 Computer-generated parallel tests for aptitude

measurement in the selection of aviation operators p 343 N93-31229

The test memorization of symbols and numbers: A computer generated test for visual sensitivity p 343 N93-31233

The concentration loading test system: A computer generated process for acquisition of attentiveness p 344 N93-31235 The aircraft position tests: A computer generated

process for acquisition of spatial orientation capability n 344 N93-31236

The PARAT tests as examination system

p 344 N93-31238 Nutrition, Metabolic Disorders and Lifestyle of Aircrew p 367 N93-32240

p 367 N93-32242 Changes in food and energy intake in military aircrew

p 368 N93-32246 Idiopathic Reactive Hypoglycemia in a population of

Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic p 362 N93-32253

Results and management of pathological lipoprotein concentrations and other cardiovascular risk factors in military pilots of the German Federal Armed Forces p 363 N93-32254

Nutritional and lifestyle status of 50 pilots of the p 369 N93-32255 Portugese Air Force

The lifestyle and dietary consumption patterns of United States Air Force aviators within air training command at p 369 N93-32257 Randolph Air Force Base, Texas Objective improvements obtained by control of diet and physical training in Spanish Air Force fighter pilots

p 369 N93-32258 Survey of smoking habits in the Spanish Air Force p 370 N93-32262

p 370 N93-32263 The effects of an antijet lag diet Subjective mood and fatigue of C-141 crew during Desert Storm p 370 N93-32264

C-141 aircrew sleep and fatigue during the Persian Gulf p 371 N93-32265 Digital flight data as a measure of pilot performance associated with fatigue from continuous operations during the Persian Gulf conflict p 371 N93-32268

Effects of caffeine on mental performance and mood: Implications for aircrew members p 372 N93-32269 PILOT SELECTION

Short-term retest reliability of an experimental U.S. Air Force pilot candidate selection test battery

p 56 A93-15661 Recent developments in U.S. Air Force pilot candidate p 97 A93-18046 selection and classification Predictive validity of an automated personality inventory p 179 A93-27452 for Air Force pilot selection 'Screening-Controlling' Psychological Selection System for Air Force pilot cadet p 222 A93-30440

Structured interviews for pilot selection - No incremental validity p 286 A93-39572 Photo-Refractive Keratectomy (PRK) - Threat or p 401 A93-55169

millennium for military pilots? p 401 A93-55169
The screening of inhalant allergic diseases in the selection of candidates for aircraft piloting

p 21 N93-11312 Asthma in aircrew: Assessment, treatment and disposition p 21 N93-11315 Using constraint satisfaction networks to study aircrew

election for advanced cockpits IAD-A2581511 p 140 N93-18293 International application of the DLR test-system: Continuation of the cooperation with Iberia in pilot

selection IDLR-FB-92-121 p 225 N93-24104 The five-factor personality model and naval aviation

candidates IAD-A2602271 p 225 N93-24319 Pilot Candidate Selection Method (PCSM): What makes

it work? [AD-A262871] p 340 N93-29481 Computer-generated parallel tests for aptitude measurement in the selection of aviation operators

DLR-F8-92-29 p 343 N93-31229 Phases of the project development and examination methodologies p 343 N93-31231

The position test: A computer generated process for acquisition of inductive logic thinking

p 343 N93-31232 The test memorization of symbols and numbers: A computer generated test for visual sensitivity

p 343 N93-31233 The clearance test: A computer generated process for

acquisition of auditive short term sensitivity p 343 N93-31234

The concentration loading test system: A computer attentiveness generated process for acquisition of p 344 N93-31235 control The aircraft position tests: A computer generated

process for acquisition of spatial orientation capability p 344 N93-31236

The PARAT tests as examination system p 344 N93-31238

Abridged procedural guide to aircrew anthropometric accommodation assessment (AD-A265220) p 366 N93-32006

PILOT TRAINING

Assessing for preflight predictors of airsickness p 8 A93-10335

The USAF Test Pilot School flight control systems

I AIAA PAPER 92-4067 I p 24 A93-11253 Human factors on advanced flight decks; Proceedings of the Conference, London, United Kingdom, Mar. 14,

(ISBN 0-903409-85-21 p 29 A93-13408 Airline training for advanced technology cockpits p 24 A93-13411

Industrial design influence on today's flight decks p 61 A93-14378 PILOTS (PERSONNEL) SUBJECT INDEX

Psychophysiological characteristics of the activity of PITUITARY GLAND Computer modeling of the Variable Pressure Growth flight personnel during training on VTOL aircraft Chamber using the CASE/A simulation package The pituitary - Aging and spaceflown rats p 45 A93-15175 SAE PAPER 921354 p 306 A93-41513 Plant growth modeling at the JSC variable pressure |SAE PAPER 921354| p 79 A93-20661 The 'artful' decision maker - A framework model for Heterogeneity of rat pituitary prolactin cells aeronautical decision making growth chamber - An application of experimental design p 56 A93-15662 Relationships among location, hormone assay and estrous cycle stage p 358 A93-46606 | ISAE PAPER 921356| p 307 A93-41515 | Regenerative Life Support Systems Test Bed performance - Lettuce crop characterization Recent developments in U.S. Air Force pilot candidate selection and classification. p 97 A93-18046 Electrophoretic separation of cells and particles from Prospective assessment of stereoscopic visual status rat pituitary and rat spleen p 309 A93-41549 and USAF pilot training attrition p 116 A93-24039 |NASA-CR-193073| SAE PAPER 9213911 p 276 N93-28415 Individual pilot differences related to situation PITUITARY HORMONES An integrated human/plant metabolic mass balance p 175 A93-27137 p 347 A93-42130 model The pituitary - Aging and spaceflown rats Insights into pilot situation awareness using verbal Effects of two kinds of Chinese herb medicine on rabbit's p 79 A93-20661 p 175 A93-27138 protocol analysis ear microcirculation under simulated weightlessness Norepinephrine content in discrete brain areas and The development and use of a generic nonnormal p 327 A93-44842 neurohypophysial vasopressin in rats after a 9-d spaceflight checklist with applications in ab initio and Introductory Protective effects of Rhodiola crenulata on rats under (SLS-1) p 273 A93-41167 Advanced Qualification Programs antiorthostatic position and professional athletes p 180 A93-27456 Separation of rat pituitary secretory granules by Altitude stress and cosmonaut training p 327 A93-44843 continuous flow electrophoresis p 329 A93-44933 p 262 Minitron II system for precise control of the plant growth Heterogeneity of rat pituitary prolactin cells p 357 A93-46470 Control of the development of occupationally important Relationships among location, hormone assay and estrous qualities with the aim of improving flight-personnel training p 257 A93-35249 Centrifuges - Evolution of their uses in plant gravitational p 358 A93-46606 biology and new directions for research on the ground Nocturnal pituitary hormone and renin profiles during p 376 A93-49211 Visual cues in low-level flight - Implications for pilotage, and in spaceflight chronic heat exposure p 387 A93-52619 training, simulation, and enhanced/synthetic vision Resource capture by single leaves Endocrinology of space/motion sickness p 264 A93-35918 [DE92-015847] p 403 A93-55935 A study of decision making and performance in rejected Techniques for optimal crop selection in a controlled Electrophoretic separation of cells and particles from takeoffs ecological life support system rat pituitary and rat spleen [SAE PAPER 921134] [NASA-TM-103950] p 33 N93-12018 p 287 A93-41322 p 276 N93-28415 LNASA-CR-1930731 Manned Space-Laboratories Control Centre (MSCC) PLANETARY ATMOSPHERES Scaling issues for biodiversity protection training p 339 A93-43330 p 6 N93-12315 The violent environment of the origin of life - Progress IDE92-0166891 Ab initio pilot training process more efficient than Investigation of wheat coleoptile response to phototropic and uncertainties p 412 A93-53292 traditional methods p 387 A93-49276 stimulations **PLANETARY BASES** Future military pilot training - A perspective of industry K.E. Tsiolkovsky on the problem of human survival in INASA-CR-1921571 p 114 N93-18608 | Alaa Paper 93-3601| Development of Arabidopsis thaliana grown under p 404 A93-52689 extreme environments (On the earth and in space) p 77 A93-18407 p 211 N93-24404 Computerized teaching of pilots to spatial orientation nicrogravity conditions PLASMA CORE REACTORS flight tasks ght tasks p 404 A93-52694 In-simulator assessment of trade-offs arising from Mars habitat p 352 N93-29747 Plasma reactor waste management systems PLANETARY COMPOSITION mixture of color cuing and monocular, binopti p 68 N93-14000 Mars: A reassessment of its interest to biology stereopsis cuing information p 113 N93-18550 PLASTIC MEMORY p 407 A93-52916 An evaluation of crew coordination and performance Theory of synaptic plasticity in visual cortex Giant planets: Clues on current and past organic during a simulated UH-60 helicopter mission [40.4260052] p 224 N93-23960 chemistry in the outer solar system p 113 N93-18551 PLASTIC PROPERTIES IAD-A2549841 p 35 N93-12509 PLANETARY ENVIRONMENTS Workshop on Aeronautical Decision Making (ADM). Theory of synaptic plasticity in visual cortex Giant planets: Clues on current and past organic p 219 N93-24238 Volume 1: Executive summary [AD-A260322] chemistry in the outer solar system p 113 N93-18551 [AD-A257016] PLATELETS p 99 ' N93-16189 PLANETARY EVOLUTION Automatic information processing and high performance Evaluation of dried storage of platelets for transfusion: Comets and the formation of biochemical compounds skills on the primitive earth - A review p 109 A93-17977 Physiologic integrity and hemostatic functionality [AD-A258473] The fate or organic matter during planetary accretion -Preliminary studies of the organic chemistry of p 132 N93-18273 [AD-A263240] p 334 N93-29620 The unique contribution of selected personality tests to POINTING CONTROL SYSTEMS the prediction of success in naval pilot training experimentally shocked Murchison meteorite Eye slaved pointing system for teleoperator control p 132 N93-18291 [AD-A258144] p 110 A93-17984 p 101 A93-19090 The next generation female in cockpit: Do we need a Mars: A reassessment of its interest to biology **POLAR REGIONS** p 113 N93-18550 new approach to cockpit resource management (CRM)? Biomedical Polar Research Workshop Minutes p 143 N93-19704 Giant planets: Clues on current and past organic [NASA-TM-108026] p 81 N93-16799 Attention factors associated with head-up display and chemistry in the outer solar system p 113 N93-18551 POLARIZATION (CHARGE SEPARATION) helmet-mounted display systems PLANETARY QUARANTINE Primary charge separation in isolated photosystem 2 p 235 N93-24001 [AD-A260204] Planetary guarantine in the solar system - Survival rates reaction centers Predicting aircrew training of some terrestrial organisms under simulated space [DE92-041128] p 82 N93-17189 p 378 A93-52408 psychometric q conditions by proton irradiation AD-A2640211 p 340 N93-30026 PLANETARY SYSTEMS Health effects of low-frequency electric and magnetic Helicopter simulation: An aircrew training and ualification perspective p 342 N93-30676 The solar system: Importance of research to the fields p 113 N93-18547 biological sciences qualification perspective [DE93-005675] p 127 N93-19838 Training effectiveness assessment: Where are we? PLANKTON p 342 N93-30679 p 342 N93-30680 POLIOMYELITIS Relative resistance of biofilms and planktonic cells of Immunization of personnel traveling to a destination in Current training: Where are we? common molds and yeasts to antimicrobials Training effectiveness assessment: Methodological p 19 N93-11304 [SAE PAPER 921212] p 273 A93-41388 tropical countries: French position **POLITICS** problems and issues n 342 N93-30684 Biofilm ecology of bioluminescent bacteria Background and objectives of the PARAT program Organizational politics, participation in decision-making, IAD-A255282| p 42 N93-14532 p 343 N93-31230 and job satisfaction PLANNING p 257 N93-25203 [DOT/FAA/AM-92/17] Mandatory multi-engined training syllabus Overconfidence, preview, and probability in strategic p 363 N93-31729 **POLLUTION CONTROL** planning p 179 A93-27195 PILOTS (PERSONNEL) PLANT DESIGN Format and structure of a database on health and environmental impacts of different energy systems for Application of contrasting temperatures as a method Ultraviolet disinfection technology assessment of preadapting pilots to the conditions of a hot climate p 64 N93-12983 [P892-222868] electricity generation p 45 A93-15166 PLANT DISEASES [DE92-634160] p 12 N93-10222 Study of the spectrum of power of cardiac rhythm during Interdisciplinary research and training program in the Space life support technology applications to terrestrial p 265 N93-25617 tasks relating to the safety of the control of an plant sciences environmental problems p 127 N93-19707 [DE92-015919] p 5 N93-10835 apparatus POLITITION MONITORING Tobacco and health of the pilot PLANT ROOTS The role of Environmental Health System air quality A matrix-based porous tube water and nutrient delivery [ETN-93-93693] p 217 N93-23414 nonitors in Space Station Contingency Operation PINEAL GLAND ISAE PAPER 9214141 p 310 A93-41565 ISAE PAPER 9213901 p 309 A93-41548 Melatonin in human preovulatory follicular fluid Monitoring human tissues for toxic substances The Minitron system for growth of small plants under p 215 A93-32474 [PB92-223239] p 173 N93-21498 p 358 A93-46471 controlled environment conditions Melatonin concentrations in the sudden infant death POLLUTION TRANSPORT Gravity and root morphogenesis p 210 N93-24403 p 203 A93-33030 Application of RADTRAN to estimation of doses to PLANTS (BOTANY) The pineal gland - Its possible roles in human persons in enclosed spaces Pharmacological effects of mixture of Eleutherococcus [DE93-000758] p 97 N93-17230 reproduction p 204 A93-33036 (ELE) and Elscholtzia (ELS) p 11 A93-13710 POLYMERS The Gordon Research Conference on Pineal Cell Controlled ecological life-support system - Use of plants Dark matter in the solar system - Hydrogen cyanide Biology p 190 A93-28715 for human life-support in space p 337 N93-30904 [AD-A264840] polymers p 110 A93-17987 Biosphere 2 - Overview of system performance during **POLYTETRAFLUOROETHYLENE** Melatonin, the pineal gland, and circadian rhythms he first nine months Space habitat contaminant growth models. If LAD-A2640991 p 337 N93-31061 | SAE PAPER 921129 | p 291 A93-41317 p 345 A93-42094 Advanced life support systems in lunar and Martian PITCH (INCLINATION) environments utilizing a higher plant based engineering Influence of gravitoinertial force level on vestibular and **POPULATION THEORY** visual velocity storage in yaw and pitch Individual differences and subgroups within populations

|SAE PAPER 921286|

p 165 A93-28701

p 302 A93-41452

p 136 A93-24050

The shopping bag approach

| SAE PAPER 921362 | p 307 A93-41521 | Extraction of potable water from urine for space applications | p 345 A93-42121

POPULATIONS	Methods development for total organic carbon	Analysis of the lettuce data from the variable pressure
Human perceptual deficits as factors in computer	accountability	growth chamber at NASA Johnson Space Center: A
interface test and evaluation [DE92-019124] p 63 N93-12712	[NASA-CR-184438] p 40 N93-12949	three-stage nested design model p 245 N93-26069
DE92-019124 p 63 N93-12712 POROSITY	Regenerable biocide delivery unit [NASA-CASE-MSC-21763-1-SB] p 112 N93-18351	PRESSURE EFFECTS
Development of physical and mathematical models for	Regenerable biocide delivery unit, volume 1	Model building, algorithm and simulation of the pressure control system of a cabin p 29 A93-13534
the Porous Ceramic Tube Plant Nutrification System	[NASA-CR-185701-VOL-1] p 274 N93-27122	Peroxidative oxidation of lipids and chromosome
(PCTPNS)	Utilization of high energy electron beam in the treatment	aberrations in mice after repeated exposures to a
[NASA-TM-107551] p 4 N93-10085	of drinking and waste water	helium-oxygen respiration mixture under hyperbaric
PORPHYRINS	[DE92-642335] p 372 N93-32406 POTATOES	conditions p 243 A93-35672
Nonlinear optical properties of porphyrin and chlorophyll dimers studied by degenerated four wave mixing	Crop growth and associated life support for a lunar	The effects of a reduced pressure scenario on the
[DE93-006411] p 210 N93-24028	farm p 67 N93-13994	Columbus APM environmental control system SAE PAPER 921247 p 298 A93-41418
PORTABLE EQUIPMENT	Scenarios for optimizing potato productivity in a lunar	Hydrogen-rated system for in vitro studies at pressure:
X Ray System, Lightweight Medical (XRSLM)	CELSS p 67 N93-13997 POTENTIAL ENERGY	Operating procedures and emergency procedures
[AD-A258159] p 123 N93-18295	Biophysical and biochemical mechanisms in synaptic	[AD-A264179] p 336 N93-30882
Portable equipment developed to estimate energy expenditure by simultaneous recording of heart rate and	transmitter release	PRESSURE MEASUREMENT
body position p 368 N93-32243	[AD-A264829] p 336 N93-30613	Direct measurement of capillary blood pressure in the human lip p 279 A93-40550
PORTABLE LIFE SUPPORT SYSTEMS	POWER AMPLIFIERS	human lip p 279 A93-40550 Computer modeling of the Variable Pressure Growth
Comparison of portable crewmember protective	Design, construction, and control of a two degree-of-freedom electric direct-drive human power	Chamber using the CASE/A simulation package
breathing equipment (CPBE) designs	amplifier p 65 N93-13486	[SAE PAPER 921354] p 306 A93-41513
[DOT/FAA/AM-93/6] p 310 N93-27121	POWER LINES	Plant growth modeling at the JSC variable pressure
Evolution of Space Station EMU PLSS technology recommendations p 312 N93-27790	Potential human health effects associated with power	growth chamber - An application of experimental design
POSITION (LOCATION)	frequency electric and magnetic fields [PB93-132678] p 221 N93-24590	[SAE PAPER 921356] p 307 A93-41515
The locator system for wandering individuals	POWER SUPPLY CIRCUITS	PRESSURE OSCILLATIONS The state of cardiac activity control in humans during
[NASA-TM-104754] p 31 N93-11649	Evaluation of an electronics system concept for	cyclic changes of barometric pressure in a hermetic
Eye movements and visual information processing	Respiratory Protection system (RESPO 21)	chamber p 251 A93-35257
[AD-A259955] p 225 N93-24297	[AD-A253394] p 30 N93-10288	PRESSURE REDUCTION
POSITION ERRORS Methodology issues concerning the accuracy of	POWERED LIFT AIRCRAFT Design of a portable powered seat lift	Human factors in design of military aircrafts' oxygen
kinematic data collection and analysis using the ariel	p 195 N93-22190	supply equipment p 60 A93-14222
performance analysis system	PREDICTION ANALYSIS TECHNIQUES	Approaches to solving the problem of decompression safety of cosmonauts on their flights to Mars
[NASA-CR-185689] p 34 N93-12211	Operator workload predictions for the revised AH-64A	p 90 A93-18410
POSITRONS Cognition in the brain: Investigations using positron	workload prediction model. Volume 2: Appendixes A through H	Complement proteins and decompression sickness
emission tomography	[AD-A254939] p 63 N93-12545	susceptibility
[AD-A254280] p 14 N93-10765	The unique contribution of selected personality tests to	[AD-A254448] p 50 N93-12905
New techniques for positron emission tomography in	the prediction of success in naval pilot training	Statistically based decompression tables. 7: Selection and treatment of primary air and N2O2 data
the study of human neurological disorders	[AD-A258144] p 132 N93-18291	[AD-A259090] p 172 N93-20587
[DE92-015353] p 23 N93-11873 Non-invasive evaluation of the cardiac autonomic	Target fragmentation in radiobiology [NASA-TM-4408] p 124 N93-18381	Telescience testbedding for physiological experiments
nervous system by PET	PREDICTIONS	under hypobaric hypoxic conditions p 220 N93-24398
[DE92-041077] p 96 N93-16441	Comparative assessment of psychomotor performance	Hyperbaric treatment p 360 N93-31454
POSTFLIGHT ANALYSIS	- Target prediction by humans and macaques (Macaca mulatta) p 204 A93-33035	PRESSURE REGULATORS
The cardiovascular system p 46 A93-15530 POSTURE	Operator workload predictions for the revised AH-64A	For space suits - The multifunction pressure reducer-regulator of Intertechnique p 61 A93-15057
Influence of posture and prolonged head-down tilt on	workload prediction model, volume 1	PRESSURE SENSORS
cardiovascular reflexes p 161 A93-28677	[AD-A254198] p 30 N93-10261 Microcomputer based software for biodynamic	Space Shuttle Orbiter oxygen partial pressure sensing
Vestibular ataxia following shuttle flights - Effects of microgravity on otolith-mediated sensorimotor control of	Microcomputer based software for biodynamic simulation p 196 N93-22191	and control system improvements [SAE PAPER 921347] p 305 A93-41506
posture p 169 A93-28750	Contribution of personality to the prediction of success	SAE PAPER 921347 p 305 A93-41506 Power assist EVA glove development
Human-like agents with posture planning ability	in initial air traffic control specialist training	p 314 N93-27850
p 192 A93-29118	[DOT/FAA/AM-93/4] p 259 N93-26138	PRESSURE SUITS
	DDEELIGHT ODEDATIONS	
Visual and somesthetic influences on postural	PREFLIGHT OPERATIONS Cockpit checklists - Concepts, design, and use	Potential hazards of high anti-Gz suit protection
orientation in the median plane p 224 A93-32782	PREFLIGHT OPERATIONS Cockpit checklists - Concepts, design, and use p 389 A93-52506	p 48 A93-16164
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health	p 48 A93-16164 Pressure suit requirements for moon and Mars EVA's
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program	p 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N93-16699	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655	p 48 A93-16164 Pressure suit requirements for moon and Mars EVA's
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N93-16699 Role of orientation reference selection in motion	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program	p 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N93-16699	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program	p 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N93-16699 Role of orientation reference selection in motion sickness [NASA-CR-191912] p 124 N93-18596 Transmission of vibration through the human body to	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655	p 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N93-16699 Role of orientation reference selection in motion sickness [NASA-CR-191912] p 124 N93-18596 Transmission of vibration through the human body to the head: A summary of experimental data	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program	p 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512 PRESSURIZED CABINS
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N93-16699 Role of orientation reference selection in motion sickness [NASA-CR-191912] p 124 N93-18596 Transmission of vibration through the human body to	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PREPARATION	p 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N93-16699 Role of orientation reference selection in motion sickness [NASA-CR-191912] p 124 N93-18596 Transmission of vibration through the human body to the head: A summary of experimental data [ISVR-TR-218] p 361 N93-32237 POTABLE WATER Phase III Integrated Water Recovery Testing at MSFC	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PREPARATION Phases of the project development and examination methodologies p 343 N93-31231 The PARAT tests as examination system	p 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512 PRESSURIZED CABINS Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N93-16699 Role of orientation reference selection in motion sickness [NASA-CR-191912] p 124 N93-18596 Transmission of vibration through the human body to the head: A summary of experimental data [ISVR-TR-218] p 361 N93-32237 POTABLE WATER Phase III Integrated Water Recovery Testing at MSFC - Closed hygiene and potable loop test results and lesson	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PREPARATION Phases of the project development and examination methodologies p 343 N93-31231 The PARAT tests as examination system p 344 N93-31238	p 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512 PRESSURIZED CABINS Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture [SAE PAPER 921193] p 295 A93-41371
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N93-16699 Role of orientation reference selection in motion sickness [NASA-CR-191912] p 124 N93-18596 Transmission of vibration through the human body to the head: A summary of experimental data [ISVR-TR-218] p 361 N93-32237 POTABLE WATER Phase Ill Integrated Water Recovery Testing at MSFC - Closed hygiene and potable loop test results and lesson learned	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PREPARATION Phases of the project development and examination methodologies p 343 N93-31231 The PARAT tests as examination system p 344 N93-31238 PRESSURE BREATHING	p 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512 PRESSURIZED CABINS Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture [SAE PAPER 921193] p 295 A93-41371 Shuttle Orbiter Environmental Control and Life Support
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N93-16699 Role of orientation reference selection in motion sickness [NASA-CR-191912] p 124 N93-18596 Transmission of vibration through the human body to the head: A summary of experimental data [ISVR-TR-218] p 361 N93-32237 POTABLE WATER Phase III Integrated Water Recovery Testing at MSFC - Closed hygiene and potable loop test results and lesson learned [SAE PAPER 921117] p 290 A93-41309	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PREPARATION Phases of the project development and examination methodologies p 343 N93-31231 The PARAT tests as examination system p 344 N93-31238 PRESSURE BREATHING Control of breathing under conditions of altered	p 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512 PRESSURIZED CABINS Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture [SAE PAPER 921193] p 295 A93-41371 Shuttle Orbiter Environmental Control and Life Support System - Flight experience
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N93-16699 Role of orientation reference selection in motion sickness [NASA-CR-191912] p 124 N93-18596 Transmission of vibration through the human body to the head: A summary of experimental data [ISVR-TR-218] p 361 N93-32237 POTABLE WATER Phase Ill Integrated Water Recovery Testing at MSFC - Closed hygiene and potable loop test results and lesson learned	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PREPARATION Phases of the project development and examination methodologies p 343 N93-31231 The PARAT tests as examination system p 344 N93-31238 PRESSURE BREATHING Control of breathing under conditions of altered atmospheric density during muscular work p 89 A93-18288	p 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512 PRESSURIZED CABINS Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture [SAE PAPER 921193] p 295 A93-41371 Shuttle Orbiter Environmental Control and Life Support System - Flight experience [SAE PAPER 921348] p 305 A93-41507
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N93-16699 Role of orientation reference selection in motion sickness [NASA-CR-191912] p 124 N93-18596 Transmission of vibration through the human body to the head: A summary of experimental data [ISVR-TR-218] p 361 N93-32237 POTABLE WATER Phase III Integrated Water Recovery Testing at MSFC - Closed hygiene and potable loop test results and lesson learned [SAE PAPER 921117] p 290 A93-41309 Process Control Water Quality Monitor for Space Station Freedom - Development update [SAE PAPER 921264] p 299 A93-41434	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PREPARATION Phases of the project development and examination methodologies p 343 N93-31231 The PARAT tests as examination system p 344 N93-31238 PRESSURE BREATHING Control of breathing under conditions of altered atmospheric density during muscular work p 89 A93-18288 The effect of elevated nitrogen pressure on motor activity	p 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512 PRESSURIZED CABINS Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture [SAE PAPER 921193] p 295 A93-41371 Shuttle Orbiter Environmental Control and Life Support System - Flight experience
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N93-16699 Role of orientation reference selection in motion sickness [NASA-CR-191912] p 124 N93-18596 Transmission of vibration through the human body to the head: A summary of experimental data [ISVR-TR-218] p 361 N93-32237 POTABLE WATER Phase III Integrated Water Recovery Testing at MSFC - Closed hygiene and potable loop test results and lesson learned [SAE PAPER 921117] p 290 A93-41309 Process Control Water Quality Monitor for Space Station Freedom - Development update [SAE PAPER 921264] p 299 A93-41344 Continuous monitoring of effluent iodine levels of Space	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PREPARATION Phases of the project development and examination methodologies p 343 N93-31231 The PARAT tests as examination system p 344 N93-31238 PRESSURE BREATHING Control of breathing under conditions of altered atmospheric density during muscular work p 89 A93-18288 The effect of elevated nitrogen pressure on motor activity and relationships among brain centers in monkeys	p 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512 PRESSURIZED CABINS Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture [SAE PAPER 921193] p 295 A93-41371 Shuttle Orbiter Environmental Control and Life Support System - Flight experience [SAE PAPER 921348] p 305 A93-41507 Lunar base pressure, O2 fraction, and ExtraHabitat
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N93-16699 Role of orientation reference selection in motion sickness [NASA-CR-191912] p 124 N93-18596 Transmission of vibration through the human body to the head: A summary of experimental data [ISVR-TR-218] p 361 N93-32237 POTABLE WATER Phase III Integrated Water Recovery Testing at MSFC - Closed hygiene and potable loop test results and lesson learned [SAE PAPER 921117] p 290 A93-41309 Process Control Water Quality Monitor for Space Station Freedom - Development update [SAE PAPER 921264] p 299 A93-41434 Continuous monitoring of effluent iodine levels of Space Station water using solid state technology	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PREPARATION Phases of the project development and examination methodologies p 343 N93-31231 The PARAT tests as examination system p 344 N93-31238 PRESSURE BREATHING Control of breathing under conditions of altered atmospheric density during muscular work p 89 A93-18288 The effect of elevated nitrogen pressure on motor activity and relationships among brain centers in monkeys	p 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512 PRESSURIZED CABINS Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture [SAE PAPER 921193] p 295 A93-41371 Shuttle Orbiter Environmental Control and Life Support System - Flight experience [SAE PAPER 921348] p 305 A93-41507 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRETREATMENT Mechanisms of the antihypoxic effect of taurine
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N93-16699 Role of orientation reference selection in motion sickness [NASA-CR-191912] p 124 N93-18596 Transmission of vibration through the human body to the head: A summary of experimental data [ISVR-TR-218] p 361 N93-32237 POTABLE WATER Phase III Integrated Water Recovery Testing at MSFC - Closed hygiene and potable loop test results and lesson learned [SAE PAPER 921117] p 290 A93-41309 Process Control Water Quality Monitor for Space Station Freedom - Development update [SAE PAPER 921264] p 299 A93-41344 Continuous monitoring of effluent iodine levels of Space	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PREPARATION Phases of the project development and examination methodologies p 343 N93-31231 The PARAT tests as examination system p 344 N93-31238 PRESSURE BREATHING Control of breathing under conditions of altered atmospheric density during muscular work p 89 A93-18288 The effect of elevated nitrogen pressure on motor activity and relationships among brain centers in monkeys p 75 A93-18289 Maximal lung ventilation and forced expiration rate under	P 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512 PRESSURIZED CABINS Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture [SAE PAPER 921193] p 295 A93-41371 Shuttle Orbiter Environmental Control and Life Support System - Flight experience [SAE PAPER 921348] p 305 A93-41507 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRETREATMENT Mechanisms of the antihypoxic effect of taurine p 325 A93-43073
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N93-16699 Role of orientation reference selection in motion sickness [NASA-CR-191912] p 124 N93-18596 Transmission of vibration through the human body to the head: A summary of experimental data [ISVR-TR-218] p 361 N93-32237 POTABLE WATER Phase III Integrated Water Recovery Testing at MSFC - Closed hygiene and potable loop test results and lesson learned [SAE PAPER 921117] p 290 A93-41309 Process Control Water Quality Monitor for Space Station Freedom - Development update [SAE PAPER 921264] p 299 A93-41434 Continuous monitoring of effluent iodine levels of Space Station water using solid state technology [SAE PAPER 921265] p 299 A93-41435 Evaluation of capillary electrophoresis for in-flight ionic contaminant monitoring of SSF potable water	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PREPARATION Phases of the project development and examination methodologies p 343 N93-31231 The PARAT tests as examination system p 344 N93-31238 PRESSURE BREATHING Control of breathing under conditions of altered atmospheric density during muscular work p 89 A93-18288 The effect of elevated nitrogen pressure on motor activity and relationships among brain centers in monkeys p 75 A93-18289 Maximal lung ventilation and forced expiration rate under	p 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512 PRESSURIZED CABINS Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture [SAE PAPER 921193] p 295 A93-41371 Shuttle Orbiter Environmental Control and Life Support System - Flight experience [SAE PAPER 921348] p 305 A93-41507 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRETREATMENT Mechanisms of the antihypoxic effect of taurine p 325 A93-43073 Microbiological and corrosion analysis of three urine
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] Role of orientation reference selection in motion sickness [NASA-CR-191912] p 124 N93-18596 Transmission of vibration through the human body to the head: A summary of experimental data [ISVR-TR-218] p 361 N93-32237 POTABLE WATER Phase III Integrated Water Recovery Testing at MSFC - Closed hygiene and potable loop test results and lesson learned [SAE PAPER 921117] p 290 A93-41309 Process Control Water Quality Monitor for Space Station Freedom - Development update [SAE PAPER 921264] p 299 A93-41434 Continuous monitoring of effluent iodine levels of Space Station water using solid state technology [SAE PAPER 921265] p 299 A93-41435 Evaluation of capillary electrophoresis for in-flight ionic contaminant monitoring of SSF potable water [SAE PAPER 921268] p 300 A93-41438	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PREPARATION Phases of the project development and examination methodologies p 343 N93-31231 The PARAT tests as examination system p 344 N93-31238 PRESSURE BREATHING Control of breathing under conditions of altered atmospheric density during muscular work p 89 A93-18288 The effect of elevated nitrogen pressure on motor activity and relationships among brain centers in monkeys maximal lung ventilation and forced expiration rate under hyperbaria p 76 A93-18297 Parameters of external breathing in an excess-pressure atmosphere p 76 A93-18298	P 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512 PRESSURIZED CABINS Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture [SAE PAPER 921193] p 295 A93-41371 Shuttle Orbiter Environmental Control and Life Support System - Flight experience [SAE PAPER 921348] p 305 A93-41507 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRETREATMENT Mechanisms of the antihypoxic effect of taurine p 325 A93-43073
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N93-16699 Role of orientation reference selection in motion sickness [NASA-CR-191912] p 124 N93-18596 Transmission of vibration through the human body to the head: A summary of experimental data [ISVR-TR-218] p 361 N93-32237 POTABLE WATER Phase III Integrated Water Recovery Testing at MSFC - Closed hygiene and potable loop test results and lesson learned [SAE PAPER 921117] p 290 A93-41309 Process Control Water Quality Monitor for Space Station Freedom - Development update [SAE PAPER 921264] p 299 A93-41434 Continuous monitoring of effluent iodine levels of Space Station water using solid state technology [SAE PAPER 921265] p 299 A93-41435 Evaluation of capillary electrophoresis for in-flight ionic contaminant monitoring of SSF potable water [SAE PAPER 921268] p 300 A93-41438 Use of sorption technology for treatment of humidity	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PREPARATION Phases of the project development and examination methodologies p 343 N93-31231 The PARAT tests as examination system p 344 N93-31238 PRESSURE BREATHING Control of breathing under conditions of altered atmospheric density during muscular work p 89 A93-18288 The effect of elevated nitrogen pressure on motor activity and relationships among brain centers in monkeys p 75 A93-18289 Maximal lung ventilation and forced expiration rate under hyperbaria p 76 A93-18297 Parameters of external breathing in an excess-pressure atmosphere p 76 A93-18298 Perfusion of the visual cortex during pressure breathing	P 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512 PRESSURIZED CABINS Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture [SAE PAPER 921193] p 295 A93-41371 Shuttle Orbiter Environmental Control and Life Support System - Flight experience [SAE PAPER 921348] p 305 A93-41507 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRETREATMENT Mechanisms of the antihypoxic effect of taurine p 325 A93-43073 Microbiological and corrosion analysis of three urine pretreatment regimes with titanium 6A1-4V
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] Role of orientation reference selection in motion sickness [NASA-CR-191912] p 124 N93-18596 Transmission of vibration through the human body to the head: A summary of experimental data [ISVR-TR-218] p 361 N93-32237 POTABLE WATER Phase III Integrated Water Recovery Testing at MSFC - Closed hygiene and potable loop test results and lesson learned [SAE PAPER 921117] p 290 A93-41309 Process Control Water Quality Monitor for Space Station Freedom - Development update [SAE PAPER 921264] p 299 A93-41434 Continuous monitoring of effluent iodine levels of Space Station water using solid state technology [SAE PAPER 921265] p 299 A93-41435 Evaluation of capillary electrophoresis for in-flight ionic contaminant monitoring of SSF potable water [SAE PAPER 921268] p 300 A93-41438	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PREPARATION Phases of the project development and examination methodologies p 343 N93-31231 The PARAT tests as examination system p 344 N93-31238 PRESSURE BREATHING Control of breathing under conditions of altered atmospheric density during muscular work p 89 A93-18288 The effect of elevated nitrogen pressure on motor activity and relationships among brain centers in monkeys p 75 A93-18289 Maximal lung ventilation and forced expiration rate under hyperbaria p 76 A93-18297 Parameters of external breathing in an excess-pressure atmosphere p 76 A93-18298 Perfusion of the visual cortex during pressure breathing at different high-G stress profiles	p 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512 PRESSURIZED CABINS Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture [SAE PAPER 921193] p 295 A93-41371 Shuttle Orbiter Environmental Control and Life Support System - Flight experience [SAE PAPER 921348] p 305 A93-41507 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRETREATMENT Mechanisms of the antihypoxic effect of taurine p 325 A93-43073 Microbiological and corrosion analysis of three urine pretreatment regimes with titanium 6A1-4V [NASA-CR-192575] p 372 N93-32356 PREVENTION Unconsciousness in flight and its prevention
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N93-16699 Role of orientation reference selection in motion sickness [NASA-CR-191912] p 124 N93-18596 Transmission of vibration through the human body to the head: A summary of experimental data [ISVR-TR-218] p 361 N93-32237 POTABLE WATER Phase III Integrated Water Recovery Testing at MSFC - Closed hygiene and potable loop test results and lesson learned [SAE PAPER 921117] p 290 A93-41309 Process Control Water Quality Monitor for Space Station Freedom - Development update [SAE PAPER 921264] p 299 A93-41434 Continuous monitoring of effluent iodine levels of Space Station water using solid state technology [SAE PAPER 921265] p 299 A93-41435 Evaluation of capillary electrophoresis for in-flight ionic contaminant monitoring of SSF potable water [SAE PAPER 921312] p 300 A93-41438 Use of sorption technology for treatment of humidity condensate for potable water [SAE PAPER 921312] p 303 A93-41474 Regenerable Microbial Check Valve - Life cycle tests	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PREPARATION Phases of the project development and examination methodologies p 343 N93-31231 The PARAT tests as examination system p 344 N93-31238 PRESSURE BREATHING Control of breathing under conditions of altered atmospheric density during muscular work p 89 A93-18288 The effect of elevated nitrogen pressure on motor activity and relationships among brain centers in monkeys p 75 A93-18289 Maximal lung ventilation and forced expiration rate under hyperbaria p 76 A93-18297 Parameters of external breathing in an excess-pressure atmosphere p 76 A93-18298 Perfusion of the visual cortex during pressure breathing at different high-G stress profiles p 401 A93-55167 PRESSURE CHAMBERS	p 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512 PRESSURIZED CABINS Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture [SAE PAPER 921351] p 295 A93-41371 Shuttle Orbiter Environmental Control and Life Support System - Flight experience [SAE PAPER 921348] p 305 A93-41507 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRETREATMENT Mechanisms of the antihypoxic effect of taurine p 325 A93-43073 Microbiological and corrosion analysis of three urine pretreatment regimes with titanium 6A1-4V [NASA-CR-192575] p 372 N93-32356 PREVENTION Unconsciousness in flight and its prevention p 217 A93-32787
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N93-16699 Role of orientation reference selection in motion sickness [NASA-CR-191912] p 124 N93-18596 Transmission of vibration through the human body to the head: A summary of experimental data [ISVR-TR-218] p 361 N93-32237 POTABLE WATER Phase III Integrated Water Recovery Testing at MSFC - Closed hygiene and potable loop test results and lesson learned [SAE PAPER 921117] p 290 A93-41309 Process Control Water Quality Monitor for Space Station Freedom - Development update [SAE PAPER 921264] p 299 A93-41434 Continuous monitoring of effluent iodine levels of Space Station water using solid state technology [SAE PAPER 921265] p 299 A93-41435 Evaluation of capillary electrophoresis for in-flight ionic contaminant monitoring of SSF potable water [SAE PAPER 921261] p 300 A93-41438 Use of sorption technology for treatment of humidity condensate for potable water [SAE PAPER 921312] p 303 A93-41474 Regenerable Microbial Check Valve - Life cycle tests results	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PREPARATION Phases of the project development and examination methodologies p 343 N93-31231 The PARAT tests as examination system p 344 N93-31238 PRESSURE BREATHING Control of breathing under conditions of altered atmospheric density during muscular work p 89 A93-18288 The effect of elevated nitrogen pressure on motor activity and relationships among brain centers in monkeys p 75 A93-18289 Maximal lung ventilation and forced expiration rate under hyperbaria p 76 A93-18297 Parameters of external breathing in an excess-pressure atmosphere p 76 A93-18298 Perfusion of the visual cortex during pressure breathing at different high-G stress profiles p 401 A93-55167 PRESSURE CHAMBERS Lower body negative pressure system for simulation of	p 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512 PRESSURIZED CABINS Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture [SAE PAPER 921193] p 295 A93-41371 Shuttle Orbiter Environmental Control and Life Support System - Flight experience [SAE PAPER 921348] p 305 A93-41507 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRETREATMENT Mechanisms of the antihypoxic effect of taurine p 325 A93-43073 Microbiological and corrosion analysis of three urine pretreatment regimes with titanium 6A1-4V [NASA-CR-192575] p 372 N93-32356 PREVENTION Unconsciousness in flight and its prevention p 217 A93-32787 The US Navy Healthy Back Program: Effect on back
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] P 105 N93-16699 Role of orientation reference selection in motion sickness [NASA-CR-191912] P 124 N93-18596 Transmission of vibration through the human body to the head: A summary of experimental data [ISVR-TR-218] P 361 N93-32237 POTABLE WATER Phase III Integrated Water Recovery Testing at MSFC - Closed hygiene and potable loop test results and lesson learned [SAE PAPER 921117] P 290 A93-41309 Process Control Water Quality Monitor for Space Station Freedom - Development update [SAE PAPER 921264] P 299 A93-41434 Continuous monitoring of effluent iodine levels of Space Station water using solid state technology [SAE PAPER 921265] P 299 A93-41435 Evaluation of capillary electrophoresis for in-flight ionic contaminant monitoring of SSF potable water [SAE PAPER 921268] P 300 A93-41438 Use of sorption technology for treatment of humidity condensate for potable water [SAE PAPER 921312] P 303 A93-41474 Regenerable Microbial Check Valve - Life cycle tests results	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PREPARATION Phases of the project development and examination methodologies p 343 N93-31231 The PARAT tests as examination system p 344 N93-31238 PRESSURE BREATHING Control of breathing under conditions of altered atmospheric density during muscular work p 89 A93-18288 The effect of elevated nitrogen pressure on motor activity and relationships among brain centers in monkeys p 75 A93-18289 Maximal lung ventilation and forced expiration rate under hyperbaria p 76 A93-18297 Parameters of external breathing in an excess-pressure atmosphere p 76 A93-18298 Perfusion of the visual cortex during pressure breathing at different high-G stress profiles p 401 A93-55167 PRESSURE CHAMBERS Lower body negative pressure system for simulation of	p 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512 PRESSURIZED CABINS Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture [SAE PAPER 921193] p 295 A93-41371 Shuttle Orbiter Environmental Control and Life Support System - Flight experience [SAE PAPER 921348] p 305 A93-41507 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRETREATMENT Mechanisms of the antihypoxic effect of taurine p 325 A93-43073 Microbiological and corrosion analysis of three urine pretreatment regimes with titanium 6A1-4V [NASA-CR-192575] p 372 N93-32356 PREVENTION Unconsciousness in flight and its prevention p 217 A93-32787 The US Navy Healthy Back Program: Effect on back knowledge among recruits
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N93-16699 Role of orientation reference selection in motion sickness [NASA-CR-191912] p 124 N93-18596 Transmission of vibration through the human body to the head: A summary of experimental data [ISVR-TR-218] p 361 N93-32237 POTABLE WATER Phase III Integrated Water Recovery Testing at MSFC - Closed hygiene and potable loop test results and lesson learned [SAE PAPER 921117] p 290 A93-41309 Process Control Water Quality Monitor for Space Station Freedom - Development update [SAE PAPER 921264] p 299 A93-41434 Continuous monitoring of effluent iodine levels of Space Station water using solid state technology [SAE PAPER 921265] p 299 A93-41435 Evaluation of capillary electrophoresis for in-flight ionic contaminant monitoring of SSF potable water [SAE PAPER 921316] p 300 A93-41438 Use of sorption technology for treatment of humidity condensate for potable water [SAE PAPER 921312] p 303 A93-41474 Regenerable Microbial Check Valve - Life cycle tests results [SAE PAPER 921316] p 303 A93-41478 Recovering potable water from wastewater in space	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PREPARATION Phases of the project development and examination methodologies p 343 N93-31231 The PARAT tests as examination system p 344 N93-31238 PRESSURE BREATHING Control of breathing under conditions of altered atmospheric density during muscular work p 89 A93-18288 The effect of elevated nitrogen pressure on motor activity and relationships among brain centers in monkeys p 75 A93-18289 Maximal lung ventilation and forced expiration rate under hyperbaria p 76 A93-18297 Parameters of external breathing in an excess-pressure atmosphere p P76 A93-18298 Perfusion of the visual cortex during pressure breathing at different high-G stress profiles p 401 A93-55167 PRESSURE CHAMBERS Lower body negative pressure system for simulation of + Gz-induced physiological strain p 119 A93-25210	p 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512 PRESSURIZED CABINS Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture [SAE PAPER 921193] p 295 A93-41371 Shuttle Orbiter Environmental Control and Life Support System - Flight experience [SAE PAPER 921348] p 305 A93-41507 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRETREATMENT Mechanisms of the antihypoxic effect of taurine p 325 A93-43073 Microbiological and corrosion analysis of three urine pretreatment regimes with titanium 6A1-4V [NASA-CR-192575] p 372 N93-32356 PREVENTION Unconsciousness in flight and its prevention p 217 A93-32787 The US Navy Healthy Back Program: Effect on back
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] P 105 N93-16699 Role of orientation reference selection in motion sickness [NASA-CR-191912] P 124 N93-18596 Transmission of vibration through the human body to the head: A summary of experimental data [ISVR-TR-218] P 361 N93-32237 POTABLE WATER Phase III Integrated Water Recovery Testing at MSFC - Closed hygiene and potable loop test results and lesson learned [SAE PAPER 921117] P 290 A93-41309 Process Control Water Quality Monitor for Space Station Freedom - Development update [SAE PAPER 921264] P 299 A93-41434 Continuous monitoring of effluent iodine levels of Space Station water using solid state technology [SAE PAPER 921265] P 299 A93-41435 Evaluation of capillary electrophoresis for in-flight ionic contaminant monitoring of SSF potable water [SAE PAPER 921268] P 300 A93-41438 Use of sorption technology for treatment of humidity condensate for potable water [SAE PAPER 921312] P 303 A93-41474 Regenerable Microbial Check Valve - Life cycle tests results	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PREPARATION Phases of the project development and examination methodologies p 343 N93-31231 The PARAT tests as examination system p 344 N93-31231 The PARAT tests as examination system p 344 N93-31238 PRESSURE BREATHING Control of breathing under conditions of altered atmospheric density during muscular work p 89 A93-18288 The effect of elevated nitrogen pressure on motor activity and relationships among brain centers in monkeys p 75 A93-18289 Maximal lung ventilation and forced expiration rate under hyperbaria p 76 A93-18297 Parameters of external breathing in an excess-pressure atmosphere p 76 A93-18298 Perfusion of the visual cortex during pressure breathing at different high-G stress profiles p 401 A93-55167 PRESSURE CHAMBERS Lower body negative pressure system for simulation of + Gz-induced physiological strain p 119 A93-25210 The problem of oxygen regimen in extreme conditions p 160 A93-27685 Analysis of the Variable Pressure Growth Chamber using	P 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512 PRESSURIZED CABINS Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture [SAE PAPER 921193] p 295 A93-41371 Shuttle Orbiter Environmental Control and Life Support System - Flight experience [SAE PAPER 921384] p 305 A93-41507 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRETREATMENT Mechanisms of the antihypoxic effect of taurine p 325 A93-43073 Microbiological and corrosion analysis of three urine pretreatment regimes with titanium 6A1-4V [NASA-CR-192575] p 372 N93-32356 PREVENTION Unconsciousness in flight and its prevention p 217 A93-32787 The US Navy Healthy Back Program: Effect on back knowledge among recruits [AD-A258368] p 121 N93-18210 Prevention of cumulative trauma disorders [PB93-188332] p 338 N93-31138
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N93-16699 Role of orientation reference selection in motion sickness [NASA-CR-191912] p 124 N93-18596 Transmission of vibration through the human body to the head: A summary of experimental data [ISVR-TR-218] p 361 N93-32237 POTABLE WATER Phase III Integrated Water Recovery Testing at MSFC - Closed hygiene and potable loop test results and lesson learned [SAE PAPER 921117] p 290 A93-41309 Process Control Water Quality Monitor for Space Station Freedom - Development update [SAE PAPER 921264] p 299 A93-41434 Continuous monitoring of effluent iodine levels of Space Station water using solid state technology [SAE PAPER 921265] p 299 A93-41435 Evaluation of capillary electrophoresis for in-flight ionic contaminant monitoring of SSF potable water [SAE PAPER 921312] p 303 A93-41474 Regenerable Microbial Check Valve - Life cycle tests results [SAE PAPER 921316] p 303 A93-41478 Recovering potable water from wastewater in space platforms by lyophilization [SAE PAPER 921323] p 304 A93-41485 Generation of iodine disinfection by-products (IDP's) in	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PREPARATION Phases of the project development and examination methodologies p 343 N93-31231 The PARAT tests as examination system p 344 N93-31238 PRESSURE BREATHING Control of breathing under conditions of altered atmospheric density during muscular work p 89 A93-18288 The effect of elevated nitrogen pressure on motor activity and relationships among brain centers in monkeys p 75 A93-18289 Maximal lung ventilation and forced expiration rate under hyperbaria p 76 A93-18297 Parameters of external breathing in an excess-pressure atmosphere p 76 A93-18297 Perfusion of the visual cortex during pressure breathing at different high-G stress profiles p 401 A93-55167 PRESSURE CHAMBERS Lower body negative pressure system for simulation of 4 Gz-induced physiological strain p 119 A93-25210 The problem of oxygen regimen in extreme conditions p 160 A93-27685 Analysis of the Variable Pressure Growth Chamber using the CASE/A simulation package	P 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512 PRESSURIZED CABINS Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture [SAE PAPER 921193] p 295 A93-41371 Shuttle Orbiter Environmental Control and Life Support System - Flight experience [SAE PAPER 921348] p 305 A93-41507 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRETREATMENT Mechanisms of the antihypoxic effect of taurine pretreatment regimes with titanium 6A1-4V [NASA-CR-192575] p 372 N93-32356 PREVENTION Unconsciousness in flight and its prevention p 217 A93-32787 The US Navy Healthy Back Program: Effect on back knowledge among recruits [AD-A258368] p 121 N93-18210 Prevention of cumulative trauma disorders [PB93-188332] p 338 N93-31138 PRIMARY COSMIC RAYS
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N93-16699 Role of orientation reference selection in motion sickness [NASA-CR-191912] p 124 N93-18596 Transmission of vibration through the human body to the head: A summary of experimental data [ISVR-TR-218] p 361 N93-32237 POTABLE WATER Phase III Integrated Water Recovery Testing at MSFC - Closed hygiene and potable loop test results and lesson learned [SAE PAPER 921117] p 290 A93-41309 Process Control Water Quality Monitor for Space Station Freedom - Development update [SAE PAPER 921264] p 299 A93-41434 Continuous monitoring of effluent iodine levels of Space Station water using solid state technology [SAE PAPER 921265] p 299 A93-41435 Evaluation of capillary electrophoresis for in-flight ionic contaminant monitoring of SSF potable water [SAE PAPER 921268] p 300 A93-41438 Use of sorption technology for treatment of humidity condensate for potable water [SAE PAPER 921316] p 303 A93-41474 Regenerable Microbial Check Valve - Life cycle tests results [SAE PAPER 921316] p 303 A93-41478 Recovering potable water from wastewater in space platforms by lyophilization [SAE PAPER 921323] p 304 A93-41485 Generation of iodine disinfection by-products (IDP's) in a water recycle system	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PREPARATION Phases of the project development and examination methodologies p 343 N93-31231 The PARAT tests as examination system p 344 N93-31238 PRESSURE BREATHING Control of breathing under conditions of altered atmospheric density during muscular work p 89 A93-18288 The effect of elevated nitrogen pressure on motor activity and relationships among brain centers in monkeys p 75 A93-18289 Maximal lung ventilation and forced expiration rate under hyperbaria p 76 A93-18297 Parameters of external breathing in an excess-pressure atmosphere p 76 A93-18298 Perfusion of the visual cortex during pressure breathing at different high-G stress profiles p 401 A93-55167 PRESSURE CHAMBERS Lower body negative pressure system for simulation of + Gz-induced physiological strain p 119 A93-25210 The problem of oxygen regimen in extreme conditions p 160 A93-27685 Analysis of the Variable Pressure Growth Chamber using the CASE/A simulation package [SAE PAPER 921122] p 291 A93-41314	P 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512 PRESSURIZED CABINS Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture [SAE PAPER 921351] p 295 A93-41371 Shuttle Orbiter Environmental Control and Life Support System - Flight experience [SAE PAPER 921348] p 305 A93-41507 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRETREATMENT Mechanisms of the antihypoxic effect of taurine p 325 A93-43073 Microbiological and corrosion analysis of three urine pretreatment regimes with titanium 6A1-4V [NASA-CR-192575] p 372 N93-32356 PREVENTION Unconsciousness in flight and its prevention p 217 A93-32787 The US Navy Healthy Back Program: Effect on back knowledge among recruits [AD-A258368] p 121 N93-18210 Prevention of cumulative trauma disorders [PB93-188332] p 338 N93-31138 PRIMARY COSMIC RAYS Accelerated heavy particles and the lens. VIII
orientation in the median plane p 224 A93-32782 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N93-16699 Role of orientation reference selection in motion sickness [NASA-CR-191912] p 124 N93-18596 Transmission of vibration through the human body to the head: A summary of experimental data [ISVR-TR-218] p 361 N93-32237 POTABLE WATER Phase III Integrated Water Recovery Testing at MSFC - Closed hygiene and potable loop test results and lesson learned [SAE PAPER 921117] p 290 A93-41309 Process Control Water Quality Monitor for Space Station Freedom - Development update [SAE PAPER 921264] p 299 A93-41434 Continuous monitoring of effluent iodine levels of Space Station water using solid state technology [SAE PAPER 921265] p 299 A93-41435 Evaluation of capillary electrophoresis for in-flight ionic contaminant monitoring of SSF potable water [SAE PAPER 921312] p 300 A93-41438 Use of sorption technology for treatment of humidity condensate for potable water [SAE PAPER 921316] p 303 A93-41474 Regenerable Microbial Check Valve - Life cycle tests results [SAE PAPER 921316] p 303 A93-41478 Recovering potable water from wastewater in space platforms by lyophilization [SAE PAPER 921323] p 304 A93-41485 Generation of iodine disinfection by-products (IDP's) in	Cockpit checklists - Concepts, design, and use p 389 A93-52506 Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PRELAUNCH TESTS Candidate technologies for the Integrated Health Management Program [NASA-CR-192520] p 217 N93-22655 PREPARATION Phases of the project development and examination methodologies p 343 N93-31231 The PARAT tests as examination system p 344 N93-31238 PRESSURE BREATHING Control of breathing under conditions of altered atmospheric density during muscular work p 89 A93-18288 The effect of elevated nitrogen pressure on motor activity and relationships among brain centers in monkeys p 75 A93-18289 Maximal lung ventilation and forced expiration rate under hyperbaria p 76 A93-18297 Parameters of external breathing in an excess-pressure atmosphere p 76 A93-18297 Perfusion of the visual cortex during pressure breathing at different high-G stress profiles p 401 A93-55167 PRESSURE CHAMBERS Lower body negative pressure system for simulation of 4 Gz-induced physiological strain p 119 A93-25210 The problem of oxygen regimen in extreme conditions p 160 A93-27685 Analysis of the Variable Pressure Growth Chamber using the CASE/A simulation package	P 48 A93-16164 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRESSURE VESSELS High-recovery low-pressure reverse osmosis [SAE PAPER 921353] p 306 A93-41512 PRESSURIZED CABINS Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture [SAE PAPER 921193] p 295 A93-41371 Shuttle Orbiter Environmental Control and Life Support System - Flight experience [SAE PAPER 921348] p 305 A93-41507 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125 PRETREATMENT Mechanisms of the antihypoxic effect of taurine pretreatment regimes with titanium 6A1-4V [NASA-CR-192575] p 372 N93-32356 PREVENTION Unconsciousness in flight and its prevention p 217 A93-32787 The US Navy Healthy Back Program: Effect on back knowledge among recruits [AD-A258368] p 121 N93-18210 Prevention of cumulative trauma disorders [PB93-188332] p 338 N93-31138 PRIMARY COSMIC RAYS

SUBJECT INDEX DDIMATES

THINATES		SOBSECT IIVEE
PRIMATES	Wide-bandwidth high-resolution search for	The effect of wearing protective chemical warfar
Investigation of effects of 60-Hz electric and magnetic	extraterrestrial intelligence	combat clothing on human performance
fields on operant and social behavior and on the neuroendocrine system of nonhuman primates, part 2	[NASA-CR-193137] p 322 N93-28895	p 230 A93-3028 Glovebox design for Space Station Freedom Cre
[DE92-040153] p 41 N93-13503	PROJECTION Large-screen-projection, avionic, and helmet-mounted	Health Care System
Investigation of effects of 60-Hz electric and magnetic	displays; Proceedings of the Meeting, San Jose, CA, Feb.	[SAE PAPER 921139] p 292 A93-4132
fields on operant and social behavior and on the	26-28, 1991	The Centrifuge Facility Life Sciences Glovebo
neuroendocrine system of nonhuman primates [DE93-007678] p 211 N93-24455	[SPIE-1456] p 181 A93-26881	configuration study [SAE PAPER 921158] p 293 A93-4134
PRIMITIVE EARTH ATMOSPHERE	PROKARYOTES The effects of growth temperature on the methyl sterol	Enhanced softgoods structures for spacesu
An experimental approach to chemical evolution in	and phospholipid fatty acid composition of Methylococcus	micrometeoroid/debris protective systems
submarine hydrothermal systems p 74 A93-18008	capsulatus (Bath) p 37 A93-14121	[SAE PAPER 921258] p 299 A93-4142
PRINCIPAL COMPONENTS ANALYSIS The efficacy of biographical inventory data in predicting	DNA topoisomerase V is a relative of eukaryotic	Influence of temperature and metabolic rate on wor performance with Canadian Forces NBC clothing
early attrition in naval aviation officer candidate training	topoisomerase I from a hyperthermophilic prokaryote p 399 A93-55580	nuclear, biological, and chamical assault protective
[AD-A258025] p 131 N93-17919	Regulation of alternative CO2 fixation pathways in	garments p 389 A93-4921
The five-factor personality model and naval aviation candidates	procaryotic and eucaryotic photosynthetic organisms	Continuous vs. intermittent work with Canadian force
[AD-A260227] p 225 N93-24319	[DE93-012109] p 276 N93-29181 PROMETHAZINE	NBC clothing nuclear, biological, and chemical assaul protective garments p 389 A93-49219
PROBABILITY THEORY	Treatment efficacy of intramuscular promethazine for	Evaluation of lightweight and low profile communication
Radiation damage to DNA	Space Motion Sickness p 212 A93-30283	devices for Respiratory Protective system 21 (RESPO
[DE92-015760] p 5 N93-10834 Study of the spectrum of power of cardiac rhythm during	Pharmacological countermeasures against motion	21) AD-A253393 p 30 N93-1021
tasks relating to the safety of the control of an	sickness p 404 A93-55945 PROPHYLAXIS	Evaluation of multilayer mask concept for RESPO 2
apparatus p 127 N93-19707	The efficiency of a prophylactic-rehabilitational	[AD-A253392] p 33 N93-12079
Statistically based decompression tables. 7: Selection	treatment of civil-aviation flight crews p 91 A93-18415	Sustaining health and performance in the cold
and treatment of primary air and N2O2 data [AD-A259090] p 172 N93-20587	Recent lessons on the safety and effectiveness of malaria chemoprophylaxis in a non-immune population	Environmental medicine guidance for cold-weathe operation
Quantification of human responses	p 19 N93-11307	[AD-A254328] p 23 N93-12145
p 340 N93-29564	PROPRIOCEPTION	Effectiveness of NASA 1032 and 1035 and Air Force
Probabilistic simulation of the human factor in structural reliability p 365 N93-31573	Alterations of proprioceptive function in the weightless	1030 and 1034 units in protection against cold wate
PROBLEM SOLVING	environment p 86 A93-17549 Visual and somesthetic influences on postural	hypothermia [AD-A255120] p 34 N93-1229 ¹
Graphical displays - Implications for divided attention,	orientation in the median plane p 224 A93-32782	The effects of wearing protective chemical warfare
focused attention, and problem solving	The character of spontaneous oculomotor activity in	combat clothing on human performance
p 102 A93-19984 Human-computer cooperative problem solving in	weightlessness and during readaptation p 248 A93-35219	[AD-A250716] p 35 N93-12491 Effect of protective clothing ensembles on artillery
satellite ground control p 188 A93-27163	Space motion sickness monitoring experiment -	battery crew performance
Ontology of mind, subjective ontology, and the example	Spacelab 1 p 403 A93-55941	[AD-A254327] p 64 N93-12960
of temporal expressions [REPT-92-018] p 26 N93-11212	PROSTAGLANDINS	Physiological stress from chemical defense clothing and equipment
How expert pilots think: Cognitive processes in expert	Effect of dexamethasone on proliferating osteoblasts - Inhibition of prostaglandin E2 synthesis, DNA synthesis,	[AD-A255786] p 51 N93-14028
decision making	and alterations in actin cytoskeleton	Aerospace medicine and biology: A continuing
[DOT/FAA/RD-93/9] p 288 N93-27103	p 155 A93-28728	bibliography with indexes (supplement 369)
PROCEDURES CATS EYES adjustment procedures	Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin	[NASA-SP-7011(369)] p 53 N93-14731 Protective helmet assembly
[AD-A264069] p 353 N93-29924	synthesis	[NASA-CASE-MSC-21842-1] p 106 N93-17088
PRODUCT DEVELOPMENT	[NASA-CR-193040] p 222 N93-24763	Correlation of results of radiant heat test and convective
User areas in aircraft cockpit, using methods of rapid prototype development	Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase	heat test for three layered protective clothing p 194 N93-21161
[MBB-FE-315-S-PUB-0493] p 196 N93-22389	activity by a pertussis toxin sensitive mechanism	Evaluation of two microclimate cooling air vests on a
PRODUCTION ENGINEERING	[NASA-CR-193041] p 282 N93-27102	heated mannequin
Oxygen production on the Lunar materials processing frontier p 315 N93-27967	PROSTHETIC DEVICES Design of a reading test for low vision image warping	[AD-A259410] p 194 N93-21269
PRODUCTION MANAGEMENT	p 400 A93-53025	Effects on physiology and performance of wearing the aviator NBC ensemble while flying the UH-60 helicopter
Annual report	Bar-holding prosthetic limb	flight simulator in a controlled heat environment
[NASA-CR-191389] p 105 N93-16840 PRODUCTIVITY	[NASA-CASE-MFS-28481-1] p 70 N93-14870	[AD-A259909] p 235 N93-23995
Scenarios for optimizing potato productivity in a lunar	Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087	An innovative method for hand protection from extreme cold using heat pipe
CELSS p 67 N93-13997	Finite element analysis of a composite artificial ankle	[AD-A259720] p 235 N93-24128
PROGRAM VERIFICATION (COMPUTERS) Intelligent fault management for the Space Station active	p 174 N93-22189	Lightweight passive microclimate cooling device
thermal control system p 32 N93-11930	The design of mechanically compatible fasteners for human mandible reconstruction p 253 N93-25569	[AD-A262262] p 317 N93-28112
PROGRAMMING	Shape optimization of tibial prosthesis components	Evaluation of test methods and requirements for respiratory protection systems 21
Human performance assessment methods [AGARD-AG-308-ADD] p 133 N93-18868	[NASA-CR-191123] p 246 N93-27085	[AD-A262466] p 317 N93-28757
PROJECT MANAGEMENT	Prosthetic elbow joint [NASA-CASE-MFS-28707-1] p 354 N93-30566	Evaluation and optimization of a flexible filtration system
Computer-supported collaborative work - A new agenda	PROTEASE	for respiratory protection system 21
for human factors engineering p 348 A93-42841 Advanced cockpit-mission and image management	Some proteins keep 'living fossil' pre-sequence	[AD-A262467] p 284 N93-28758 Biophysical model for handwear insulation testing
p 144 N93-19760	p 244 A93-36562 PROTECTION	[AD-A262926] p 320 N93-28884
The MOD (UK) integrated helmet technical demonstrator	Upper interior head protection. Volume 1. The	Evaluation of personal cooling systems in conjunction
programme p 145 N93-19769	development of a research test procedure	with explosive ordnance disposal suits
PROJECT PLANNING Space radiation health program plan	[PB93-113769] p 194 N93-21537 Upper interior head protection. Volume 2: Fleet	[AD-A262862] p 350 N93-29471 Aerospace medicine and biology: A continuing
[NASA-TM-108036] p 123 N93-18375	characterization and countermeasure evaluation	bibliography with indexes (supplement 377)
Cardiopulmonary discipline science plan	[PB93-113777] p 195 N93-21795	[NASA-SP-7011(377)] p 361 N93-31924
[NASA-TM-108040] p 125 N93-19648 Neuroscience discipline science plan	Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979	PROTECTIVE COATINGS
[NASA-TM-108041] p 128 N93-19882	PROTECTIVE CLOTHING	Studies of a laser/nuclear thermal hardened body armor
Regulatory physiology discipline science plan	Heat strain during at-sea helicopter operations and the	[AD-A255128] p 34 N93-12423
[NASA-TM-108038] p 115 N93-19891 Musculoskeletal discipline science plan	effect of passive microclimate cooling p 7 A93-10330 Thermal convergence fails to predict heat tolerance	Biofilm ecology of bioluminescent bacteria
[NASA-TM-108039] p 128 N93-19892	limits p 8 A93-10331	[AD-A255282] p 42 N93-14532
Study on environment control and life support	A new protective breathing apparatus	PROTECTORS Evaluation of an electronics system concept for
technology p 149 N93-20413 PROJECT SETI	p 29 A93-13535	Respiratory Protection system (RESPO 21)
Wide-bandwidth high-resolution search for	Heat stress in protective clothing - Validation of a computer model and the Heat-Humidity Index (HHI)	[AD-A253394] p 30 N93-10288
extraterrestrial intelligence	p 88 A93-18040	PROTEIN CRYSTAL GROWTH
[NASA-CR-191618] p 110 N93-15825 Wide-bandwidth high-resolution search for	The physiological consequences of simulated helicopter	Studies towards the crystallization of the rod visua pigment rhodopsin p 1 A93-11150
extraterrestrial intelligence	flight in NBC protective equipment p 117 A93-24049 Effects of error-proofing and	Atomic structure and chemistry of human serum
[NASA-CR-191807] p 110 N93-16709	chemical/biological/radiation protective glove use on	albumin ρ 200 A93-31628
SETI in Europe p 237 N93-23908	touch panel operation p 186 A93-27152	Effects of a microgravity environment on the

chemical/biological/radiation protective glove use on touch panel operation p 186 A93-27152

Effects of fatigue and heat stress on vigilance of workers in protective clothing p 177 A93-27173

Effects of a microgravity environment on the crystallization of biological macromolecules p 357 A93-45995

Space biology research development [NASA-CR-192830] p

p 244 N93-25242

PSYCHOLOGY SUBJECT INDEX

CODDECT INDEX		Parchocodi
PROTEIN METABOLISM	Principles for integrating voice I/O in a complex	Evaluation of test methods and requirements for
Protein absorption and energy digestibility at high	interface p 146 N93-19774	respiratory protection systems 21
altitude p 115 A93-21683	PROTON IRRADIATION	[AD-A262466] p 317 N93-28757
Dynamics of normalization of some behavioral and neurochemical disturbances in rats caused by the	Equivalent dose of cosmic rays at representative points of human-body models p 248 A93-35223	Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with
deprivation of the paradoxical sleep stage	Planetary quarantine in the solar system - Survival rates	standard issue earplugs
p 111 A93-23074	of some terrestrial organisms under simulated space	[AD-A263011] p 350 N93-29406
Differential effects of insulin resistance on leucine and	conditions by proton irradiation p 378 A93-52408	Nutritional and lifestyle status of 50 pilots of the
glucose kinetics in obesity p 152 A93-27224	Effects of space radiation on humoral and cellular immunity in rhesus monkeys	Portugese Air Force p 369 N93-32255
Changes in the osmolality, monovalent cation concentration, and protein structure of blood plasma under	[AD-A261808] p 246 N93-26259	PSYCHOLOGICAL TESTS A software for testing human's ability to trouble-shoot
extreme conditions p 200 A93-31188	PROTOPLASTS	in the condition of multitask p 29 A93-13537
Mechanically induced alterations in cultured skeletal	The USO-concept applied to a biological model	Spectral analysis of visual symbols p 30 A93-13718
muscle growth p 202 A93-32749	experiment p 210 N93-24379 PROTOTYPES	Comparing the Cattell 16PF profiles of male and female
Facilitation of levodopa-induced dyskinesias by dietary	Agent-based pilot-vehicle interfaces - Concept and	commercial airline pilots p 178 A93-27177
carbohydrates p 203 A93-33029	prototype p 262 A93-34986	'Screening-Controlling' Psychological Selection System
Response of a mouse hybridoma cell line to heat shock, agitation, and sparging p 328 A93-44928	Sabatier carbon dioxide reduction system for Space	for Air Force pilot cadet p 222 A93-30440
PROTEIN SYNTHESIS	Station Freedom [SAE PAPER 921189] p 294 A93-41368	Neurobehavioral test in civil aviation flight personnel p 223 A93-30443
Experimental studies on the origin of the genetic code	Development of a test protocol for evaluating EVA glove	Results of a structured psychiatric interview to evaluate
and the process of protein synthesis - A review update	performance	NASA astronaut candidates p 223 A93-32780
p 73 A93-17822	[SAE PAPER 921254] p 298 A93-41424	Structured interviews for pilot selection - No incremental
Intracellular proteins produced by mammalian cells in response to environmental stress p 328 A93-44929	Life systems for a lunar base p 66 N93-13992 Development of a prototype interactive learning system	validity p 286 A93-39572
response to environmental stress p 328 A93-44929 Effect of spaceflight on human protein metabolism	using multi-media technology for mission independent	Long-lasting neuropsychological changes after a single
р 360 А93-47097	training program p 100 N93-17310	high altitude climb p 278 A93-39713
Relationship between G + C in silent sites of codons	Design of a portable powered seat lift	The psychological challenge of space p 339 A93-42658
and amino acid composition of human proteins	p 195 N93-22190 Microcomputer based software for biodynamic	Recommendations for mental workload measurement
p 358 A93-47099 Mechanical stimulation of skeletal muscle mitigates	Microcomputer based software for biodynamic simulation p 196 N93-22191	in a test and evaluation environment
glucocorticoid induced decreases in prostaglandin	User areas in aircraft cockpit, using methods of rapid	p 394 A93-52504
synthesis	prototype development	Visual perception of structure from motion
[NASA-CR-193040] p 222 N93-24763	[MBB-FE-315-S-PUB-0493] p 196 N93-22389	[AD-A253235] p 26 N93-11503
Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase	Space biology initiative program definition review. Trade study 2: Prototype utilization in the development of space	Meta-analysis of integrity tests: A critical examination of validity generalization and moderator variables
activity by a perfussis toxin sensitive mechanism	biology hardware p 209 N93-23082	[AD-A254681] p 27 N93-12225
[NASA-CR-193041] p 282 N93-27102	PROTOZOA	Comparing performance on implicit memory tests
PROTEINOIDS	Graviperception in unicellular organisms - A comparative	[AD-A258168] p 131 N93-17921
Flavine-dependent processes in model prebiological	behavioural study under short-term microgravity p 151 A93-26548	Using constraint satisfaction networks to study aircrew
systems p 372 A93-47125 PROTEINS	Swimming behavior of the unicellular flagellate, Euglena	selection for advanced cockpits [AD-A258151] p 140 N93-18293
Flavoproteins as natural prototypes of molecular	gracilis, in simulated and real microgravity	Effects on physiology and performance of wearing the
electronic devices with photocontrolled conductivity	p 151 A93-26549	aviator NBC ensemble while flying the UH-60 helicopter
p 1 A93-11199	Ecological-morphological features of the growth and distribution of cultures of unicellular organisms in a	flight simulator in a controlled heat environment
Immune response during space flight p 94 A93-20664	gravitational field p 241 A93-35248	[AD-A259909] p 235 N93-23995 Spontaneous discovery and use of categorical
A balanced carbohydrate:protein diet in the management	Process for selectively recovering algae and protozoa	structure
of Parkinson's disease p 153 A93-27918	[NASA-CASE-MFS-26124-1-NPO] p 276 N93-29174	(AD-A261658) p 260 N93-26364
Protein composition of the blood plasma of cosmonauts	PROXIMITY	Neuromagnetic investigation of cortical regions
after lengthy orbital flights p 249 A93-35243 Roles of water molecules in bacteria and viruses	Real time proximity cues for teleoperation using model based force reflection p 184 A93-27033	underlying short-term memory [AD-A261445] p 261 N93-26521
p 243 A93-36555	PSEUDOMONAS	Pilot Candidate Selection Method (PCSM): What makes
Comparison of membrane ATPases from extreme	Aquatic biofilms and their responses to disinfection and	it work?
halophiles isolated from ancient salt deposits	invading species	[AD-A262871] p 340 N93-29481
p 243 A93-36557 Some proteins keep 'living fossil' pre-sequence	SAE PAPER 921211 p 296 A93-41387 Pseudomonas screening assay	Field test of a computer-driven tool to measure psychological characteristics of aircrew
p 244 A93-36562	[NASA-CASE-NPO-17653-1-CU] p 245 N93-25994	[AD-A264484] p 341 N93-30425
In vitro selection of optimal DNA substrates for T4 RNA	PSYCHIATRY	Computer-generated parallel tests for aptitude
ligase p 329 A93-44939	Contribution of psychiatry to life in space	measurement in the selection of aviation operators
Salivary total protein and experimental Coriolis	p 56 A93-15529 PSYCHOLOGICAL EFFECTS	[DLR-FB-92-29] p 343 N93-31229
sickness p 383 A93-49573 Nerves and tissue repair	Psychiatric diagnoses aboard an aircraft carrier	Background and objectives of the PARAT program p 343 N93-31230
[AD-A255299] p 53 N93-14535	p 57 A93-16162	Phases of the project development and examination
Biophysical and biochemical mechanisms in synaptic	Psychophysiological factors which impair the	methodologies p 343 N93-31231
transmitter release	professional reliability of a pilot in emergency situations p 129 A93-23150	The position test: A computer generated process for
[AD-A256340] p 55 N93-15198 The effects of prolonged growth in elevated CO2	Diagnostics and prophylaxis of adverse psychological	acquisition of inductive logic thinking p 343 N93-31232
concentrations in the field on the amounts of different leaf	states in marine aviation flight personnel	The test memorization of symbols and numbers: A
proteins	p 257 A93-36744	computer generated test for visual sensitivity
[DE93-002940] p 115 N93-19751	Performance and mood-state parameters during 30-day 6 deg head-down bed rest with exercise training	p 343 N93-31233
Nutrition and hydration status of aircrew members consuming the food packet, survival, general purpose,	p 281 A93-41169	The clearance test: A computer generated process for acquisition of auditive short term sensitivity
improved during a simulated survival scenario	The psychological effects of isolation on a space station	p 343 N93-31234
[AD-A258744] p 128 N93-20384	- A simulation study	The concentration loading test system: A computer
Biochemically active layers for selective material	[SAE PAPER 921191] p 287 A93-41369	generated process for acquisition of attentiveness
detection sensors [MBB-Z-0440-92-PUB] p 158 N93-20959	Analysis of individual differences between psychological reactions of humans under combined hypoxic stress	control p 344 N93-31235 The aircraft position tests: A computer generated
Primary events in olfactory reception	p 388 A93-51115	process for acquisition of spatial orientation capability
[AD-A260562] p 255 N93-25944	PSYCHOLOGICAL FACTORS	p 344 N93-31236
Pseudomonas screening assay	Crew factors and their psychological problems in long	The cube rotation test: A computer generated process
[NASA-CASE-NPO-17653-1-CU] p 245 N93-25994	term space flight p 57 A93-17431 Overconfidence, preview, and probability in strategic	for acquisition of mental spatial manipulator capability
Intraceflular targeting of the Yersinia YopE cytotoxin in mammalian cells induces actin microfilament disruption	planning p 179 A93-27195	p 344 N93-31237 The PARAT tests as examination system
[FOA-B-40420-4.4] p 275 N93-27989	Things that go bump in the light - On the optical	p 344 N93-31238
Plasmid encoded virulence of Yersinia	specification of contact severity p 256 A93-35099	PSYCHOLOGY
[FOA-B-40419-4.4] p 275 N93-28199	Lunar habitats - Places for people	Testing primates with joystick-based automated
13 C NMR spectra of allosteric effectors of hemoglobin	p 344 A93-41991 Summary of presentation for research on social	apparatus - Lessons from the Language Research Center's Computerized Test System p 202 A93-32651
[AD-A262979] p 284 N93-28293	structure, agreement, and conflict in groups in extreme	The next generation female in cockpit: Do we need a
Center of Excellence in Biotechnology (Research)	and isolated environments p 99 N93-16801	new approach to cockpit resource management (CRM)?
[AD-A263598] p 330 N93-29915	Effectiveness of birthdate biorhythm theory on flight	p 143 N93-19704
PROTOCOL (COMPUTERS)	accidents p 127 N93-19710	Gremlins: A dozen hazardous thought and behavior patterns as risk factors p 134 N93-19709
Assessment of programs in space biology and	Instructions and advance training measures for the	patterns as risk factors p 134 N93-19709

[AD-A263598] p 330 N93-29915

PROTOCOL (COMPUTERS)

Assessment of programs in space biology and

p 41 N93-13327

medicine [NASA-CR-190930]

improvement of human reliability [MBB-FE-313-S-PUB-0500]

p 181 N93-21402

The central executive component of working memory [AD-A258724] p 135 N93-20326

PSYCHOMETRICS SUBJECT INDEX

Neuropsychological components of object	Behavioral asymmetries of psychomotor performance	Study of the spectrum of power of cardiac rhythm during
identification	in rhesus monkeys (Macaca mulatta) · A dissociation	tasks relating to the safety of the control of an
[AD-A261449] p 259 N93-26347	between hand preference and skill p 339 A93-44923	apparatus p 127 N93-19707
The dynamics of visual representation, attention, encoding, and retrieval processes	The effects of Benadryl and Hismanal on mood.	JPRS report: Science and technology. Central Eurasia: Life sciences
[AD-A264674] p 342 N93-30543	physiological measures, antihistamine detection, and subjective symptoms p 385 A93-52302	[JPRS-ULS-92-025] p 244 N93-25405
PSYCHOMETRICS	The effects of Benadryl and Hismanal on psychomotor	Comparative analytical study of evoked and event
Human speed perception is contrast dependent	performance and perceived performance	related potentials as correlates of cognitive processes
p 55 A93-14119 The 'artful' decision maker - A framework model for	p 385 A93-52303	[AD-A261388] p 261 N93-26446
aeronautical decision making p 56 A93-15662	Human factors with nonhumans - Factors that affect	Theory of signal detection and its application to visual target acquisition: A review of the literature
A comparison of two scoring procedures with the NASA	computer-task performance p 404 A93-52721	[AD-A262920] p 288 N93-28307
task load index in a simulated flight task	Evaluation of zolpidem on alertness and psychomotor	Selection of personnel for stressful occupations: The
p 349 A93-42849	abilities among aviation ground personnel and pilots p 401 A93-55163	potential utility of psychophysiological measures as
Recommendations for mental workload measurement in a test and evaluation environment	Psychophysiological study on the effects of co-existence	selection tools [AD-A264571] p 363 N93-32011
p 394 A93-52504	of lines for detecting dot target p 405 A93-55330	PSYCHOSOMATICS
Space and cognition - The measurement of behavioral	Publications of the Space Physiology and	The asthenic syndrome and the dynamics of
functions during a 6-day space mission	Countermeasures Program, Neuroscience Discipline:	mental-work capacity p 256 A93-35241
p 405 A93-55164 A psychometrically sound cognitive diagnostic model:	1980-1990 [NASA-CR-4476] p 55 N93-15583	Psychosomatic status and flying skill during geomagnetic
Effect of remediation as empirical validity	Proceedings of Workshop 1: The Human Brainmap	disturbances p 257 A93-35251 Diagnostics and prophylaxis of adverse psychological
[AD-A255926] p 52 N93-14109	Database	states in marine aviation flight personnel
A computer-based visual analog scale	[AD-A260720] p 258 N93-25654	p 257 A93-36744
AD-A258152 p 122 N93-18280 Human performance assessment methods	PSYCHOPHARMACOLOGY	PSYCHOTROPIC DRUGS
[AGARD-AG-308-ADD] p 133 N93-18868	Dopamine release in rat striatum - Physiological coupling	Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress
International application of the DLR test-system:	to tyrosine supply p 152 A93-27050 Pharmacological defense of the brain during radiation	p 253 A93-36745
Continuation of the cooperation with Iberia in pilot	damage - Some arguments p 240 A93-35217	Evaluation of zolpidem on alertness and psychomotor
selection [DLR-FB-92-12] p 225 N93-24104	The effects of Benadryl and Hismanal on mood,	abilities among aviation ground personnel and pilots
DLR-FB-92-12 p 225 N93-24104 Predicting aircrew training performance with	physiological measures, antihistamine detection, and	p 401 A93-55163 PUBLIC HEALTH
psychometric g	subjective symptoms p 385 A93-52302	K.E. Tsiolkovsky on individual time perception and some
AD-A264021 p 340 N93-30026	Neurochemistry and pharmacology of motion sickness in nonhuman species p 399 A93-55934	characteristics of intuitive perception of the properties of
Field test of a computer-driven tool to measure	Pharmacological countermeasures against motion	time at different levels of motor activity and health
psychological characteristics of aircrew [AD-A264484] p 341 N93-30425	sickness p 404 A93-55945	p 98 A93-18413 Format and structure of a database on health and
Computer-generated parallel tests for aptitude	Analysis of neural systems involved in modulation of	environmental impacts of different energy systems for
measurement in the selection of aviation operators	memory storage	electricity generation
[DLR-FB-92-29] p 343 N93-31229 The position test: A computer generated process for	[AD-A262418] p 283 N93-27654 PSYCHOPHYSICS	[DE92-634160] p 12 N93-10222
acquisition of inductive logic thinking	Visual psychophysics of egomotion	Vaccination against Hepatitis B: The Italian strategy p 15 N93-11289
p 343 N93-31232	[AD-A248349] p 26 N93-11488	Smoking status and body composition, exercise, dietary
The test memorization of symbols and numbers: A	Psychophysical analyses of perceptual representations	intake, and alcohol/caffeine consumption
computer generated test for visual sensitivity p 343 N93-31233	AD-A255432 p 58 N93-14510	[AD-A250648] p 23 N93-11893 JPRS report: Science and technology. Central Eurasia:
The clearance test: A computer generated process for	Higher order mechanisms of color vision [AD-A256369] p 60 N93-15329	Life sciences
acquisition of auditive short term sensitivity	High-resolution contrast control on a video display:	[JPRS-ULS-92-024] p 40 N93-13033
p 343 N93-31234 The concentration loading test system: A computer	Method and calibration	Procedures for the diagnostic dose resistance test kits
generated process for acquisition of attentiveness	[AD-A256552] p 60 N93-15400 Spatio-temporal masking: Hyperacuity and local	for mosquitoes, body lice, and beetle pests of stored products
control p 344 N93-31235	adaptation	[AD-A255224] p 51 N93-13941
The aircraft position tests: A computer generated	[AD-A257934] p 121 N93-18006	Prologue to Action. Life Sciences Education and Science
process for acquisition of spatial orientation capability p 344 N93-31236	Decision paths in complex tasks [NASA-CR-192121] p 132 N93-18359	Literacy [PB93-107514] p 159 N93-21230
The cube rotation test: A computer generated process	PSYCHOPHYSIOLOGY	Monitoring human tissues for toxic substances
for acquisition of mental spatial manipulator capability	Vision modelling applications for display optimisation	[PB92-223239] p 173 N93-21498
p 344 N93-31237 PSYCHOMOTOR PERFORMANCE	p 29 A93-13414	PULMONARY CIRCULATION Minimal hypoxic pulmonary hypertension in normal
Locus of the single-channel bottleneck in dual-task	Psychophysiological studies of acute hypoxic hypoxia p 91 A93-18417	Tibetans at 3,658 m p 280 A93-41121
interference p 55 A93-14098	Psychophysiological factors which impair the	Functional and structural adaptation of the yak
Short-term retest reliability of an experimental U.S. Air	professional reliability of a pilot in emergency situations	pulmonary circulation to residence at high altitude
Force pilot candidate selection test battery p 56 A93-15661	p 129 A93-23150	p 326 A93-44181 Operation Everest II - Spirometric and radiographic
The effect of elevated nitrogen pressure on motor activity	Shape discrimination and the judgement of perfect symmetry - Dissociation of shape from size	changes in acclimatized humans at simulated high
and relationships among brain centers in monkeys	p 224 A93-32788	altitudes p 383 A93-49574
p 75 A93-18289	Psychophysiological principles of flight training for	Systemic and pulmonary hypertension after resuscitation
Motor activity of animals under elevated pressure p 75 A93-18290	actions in nonroutine situations p 256 A93-35233	with cell-free hemoglobin [AD-A258185] p 120 N93-17900
Effects of simulated high altitude exposure on	Altitude stress and cosmonaut training p 262 A93-35235	PULMONARY FUNCTIONS
long-latency event-related brain potentials and	Psychosomatic status and flying skill during geomagnetic	Potential hazards of high anti-Gz suit protection
performance p 117 A93-24042	disturbances p 257 A93-35251	p 48 A93-16164
The effect of G-LOC on psychomotor performance and behavior p 130 A93-25205	Identification of hazardous awareness states in	Pulmonary responses to lower body negative pressure and fluid loading during head-down tilt bedrest
COGIMIR - A study of cognitive functions in	monitoring environments [SAE PAPER 921136] p 287 A93-41324	p 162 A93-28682
microgravity p 174 A93-26569	Investigation of individual and typological features of an	Mathematical model for the exchange of gases in the
Performance differences in psychomotor and dichotic listening tests among landing craft air cushion vehicle	operator's nervous system under different work regimes	lungs with special reference to carbon monoxide
operator trainees p 177 A93-27174	p 339 A93-43024 A procedure for estimating the variables of the	p 271 A93-39707 Response of genioglossus EMG activity to passive tilt
Rated performance, cardiovascular and quantitative	working-condition space of a man-machine system for the	in men p 279 A93-41118
EEG parameters during simulated instrument flight under	control of a moving object p 364 A93-45685	Hypoxic ventilatory responsiveness in Tibetan compared
the effect of terfenadine p 165 A93-28708 Predicting individual differences in complex skill	Dynamics of electroencephalographic indices during	with Han residents of 3,658 m p 280 A93-41120
acquisition - Dynamics of ability determinants	acute hypoxia p 402 A93-55333 Perception of lightness and brightness in complex	Effect of chronic hypoxia on hypoxic ventilatory response
p 181 A93-28731	patterns	in awake rats p 323 A93-42187
Vestibular ataxia following shuttle flights - Effects of	[AD-A254093] p 25 N93-10658	Mechanisms of improved arterial oxygenation after peripheral chemoreceptor stimulation during hypoxic
microgravity on otolith-mediated sensorimotor control of posture p 169 A93-28750	Neuropsychiatric morbidity in early HIV disease: Implications for military occupational function	exercise p 331 A93-42188
Identification of a critical period for motor development	p 18 N93-11299	Arterial oxygen saturation during +Gz acceleration by
in neonatal rats p 157 A93-28764	The OMPAT level 1 Neurophysiological Performance	short-radius centrifuge p 379 A93-49178
Comparative assessment of psychomotor performance - Target prediction by humans and macaques (Macaca	Assessment Battery: NPPAB IAD-A2548401 p 27 N93-12432	Operation Everest II - Spirometric and radiographic changes in acclimatized humans at simulated high
mulatta) p 204 A93-33035	[AD-A254840] p 27 N93-12432 Statistical analysis of the human strangulation	altitudes p 383 A93-49574
Human performance and physiological function during	experiments: Comparison to +Gz-induced loss of	Pulmonary diffusing capacity, capillary blood volume,
a 24-hr exposure to 1 percent bromotrifluoromethane	consciousness	and cardiac output during sustained microgravity
(Halon 1301) p 277 A93-39704	[AD-A255485] p 54 N93-14789	p 386 A93-52617

N

SUBJECT INDEX		RADIATION PROTECTION
Asthma in aircrew: Assessment, treatment and	Photobiological investigations on spores of	Specific absorption rate and radiofrequency
disposition p 21 N93-11315	streptomyces griseus	current-lo-ground in human models exposed to near-field
Correlation of serum alpha sub 1 antitrypsin with	[ESA-TT-1269] p 277 N93-29274	irradiation p 360 A93-47098
cigarette smoking and pulmonary function status in Greek pilots, for a ten year period p 22 N93-11318	Mechanisms of microwave induced damage in biologic materials	Human exposure to galactic cosmic rays in space p 410 A93-54887
Publications of the Space Physiology and	[AD-A264415] p 358 N93-32035	DoD space radiation concerns
Countermeasures Program, Cardiopulmonary Discipline:	RADIATION DOSAGE Radiation exposure predictions for long-duration-stay	[AD-A253135] p 13 N93-10613
1980-1990 {NASA-CR-4475} p 123 N93-18376	Mars missions	Understanding mechanisms of carcinogenesis using rat tracheal epithelial cells in vitro
Cardiopulmonary discipline science plan	[AIAA PAPER 92-4584] p 28 A93-13288	[DE92-013510] p 13 N93-10626
[NASA-TM-108040] p 125 N93-19648	Experimental research on the anti-irradiation effects of KW-1 - Protective effect on the 5-HT content of tissues	Molecular cytogenetics: A novel approach for measuring chromosome translocations in individuals years after
The chronic effects of jP-8 jet fuel exposure on the lungs	in irradiated mice p 3 A93-13542	exposure to low levels of ionizing radiation
[AD-A264162] p 334 N93-30153	Radiation exposure and dose estimates for a nuclear-powered manned Mars sprint mission	[DE92-018066] p 5 N93-10974
PULMONARY LESIONS	p 60 A93-13817	Radiation physics, biophysics, and radiation biology [DE92-013673] p 6 N93-12266
Potential health hazards from thermal degradation events - Particulate vs. gas phase effects	A computer model to determine the primary contributors	Katz model prediction of Caenorhabditis elegans
[SAE PAPER 921388] p 282 A93-41546	to relative radiation dose received by astronauts p 43 A93-13935	mutagenesis on STS-42 [NASA-TM-4383] p 50 N93-13023
Endotoxin priming followed by high-altitude causes	Interplanetary crew exposure estimates for galactic	AFRRI Reports Radiobiology
pulmonary edema in rats p 323 A93-42186 PUPILS	cosmic rays p 87 A93-17975 Single particle effects, Biostack, and risk evaluation -	[AD-A257231] p 80 N93-15965
A tutorial on exit pupils and eye rotation with virtual image	Studies on the radiation risk from Galactic cosmic rays	Behavioral effects of high peak power microwave pulses: Head exposure at 1.3 GHz
optical displays [AD-A262399] p 333 N93-29400	p 202 A93-32243	[AD-A258136] p 120 N93-17985
[AD-A262399] p 333 N93-29400 PURIFICATION	Longitudinal study of astronaut health - Mortality in the years 1959-1991 p 216 A93-32783	Health effects of low-frequency electric and magnetic fields
Purification and properties of an ATPase from Sulfolobus	Accelerated heavy particles and the lens. VIII -	[DE93-005675] p 127 N93-19838
solfataricus p 201 A93-32115 PYRENES	Comparisons between the effects of acute low doses of iron ions (190 keV/microns) and argon ions (88	Potential human health effects associated with power
The origin of the polycyclic aromatic hydrocarbons in	keV/microns) p 216 A93-32784	frequency electric and magnetic fields [PB93-132678] p 221 N93-24590
meteorites p 110 A93-17983	On the biological effects of cosmic rays - Epidemiological studies p 239 A93-34858	Gene transcription and electromagnetic fields
PYRIDOXINE The role of puridoxing as a countermoseure for in flight	studies p 239 A93-34858 Equivalent dose of cosmic rays at representative points	DE93-010854 p 276 N93-28848 Photobiological investigations on spores of
The role of pyridoxine as a countermeasure for in-flight loss of lean body mass p 255 N93-26068	of human-body models p 248 A93-35223	streptomyces griseus
PYROLYSIS	Radiation conditions onboard passenger aircraft p 249 A93-35230	[ESA-TT-1269] p 277 N93-29274 Final results of space exposed experiment developed
Pyrolysis of vegetation by brief intense irradiation p 324 A93-42915	ion transport across membranes under exposure of the	for students p 329 N93-29702
Toxicological investigations of flight accidetns: Findings	organism to ionizing radiation Russian book [ISBN 5-12-001601-4] p 243 A93-35679	Continued results of the seeds in space experiment
and methods p 126 N93-19695	Radiation exposure predictions for short-duration stay	p 330 N93-29703 The Thirteenth AINSE Radiation Biology Conference:
The acute inhalation toxicity of pyrolysis products of halon 1301	Mars missions	Conference handbook
[AD-A260874] p 254 N93-25629	[AAS PAPER 92-107] p 277 A93-39261 Medical care on the moon p 331 A93-42126	[DE93-609131] p 338 N93-31225 Mechanisms of microwave induced damage in biologic
Development of a pyrolysis waste recovery model with designs, test plans, and applications for space-based	Radiation dose measurement and biostack experiment	materials
habitats plans, and applications for space-based	in biocabin on board satellite p 327 A93-44845 Depth-dose equivalent relationship for cosmic rays at	[AD-A264415] p 358 N93-32035 RADIATION HAZARDS
PYRROLES (abuse)	various solar minima p 391 A93-49564	Radiation exposure predictions for long-duration-stay
Linear tetrapyrroles (phycobilins) in a model prebiological system p 398 A93-53350	DoD space radiation concerns [AD-A253135] p 13 N93-10613	Mars missions
PYRUVATES	Molecular cytogenetics: A novel approach for measuring	AIAA PAPER 92-4584 p 28 A93-13288 Potential health risks from postulated accidents involving
Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration	chromosome translocations in individuals years after	the Pu-238 RTG on the Ulysses solar exploration
[VTT-PUBS-77] p 209 N93-23369	exposure to low levels of ionizing radiation [DE92-018066] p 5 N93-10974	mission p 43 A93-13774 Radiation exposure and dose estimates for a
•	Freeze-dried human red blood cells	nuclear-powered manned Mars sprint mission
Q	[AD-A253295] p 14 N93-11193	p 60 A93-13817 Interplanetary crew exposure estimates for galactic
QUALIFICATIONS	JPRS report: Science and technology. Central Eurasia: Life sciences	cosmic rays p 87 A93-17975
Instructions and advance training measures for the	[JPRS-ULS-92-024] p 40 N93-13033	Track structure model for damage to mammalian cell cultures during solar proton events p 75 A93-18073
improvement of human reliability [MBB-FE-313-S-PUB-0500] p 181 N93-21402	Application of RADTRAN to estimation of doses to	cultures during solar proton events p 75 A93-18073 Accelerated heavy particles and the lens, VIII -
QUALITY CONTROL	persons in enclosed spaces [DE93-000758] p 97 N93-17230	Comparisons between the effects of acute low doses of
Errors in aviation maintenance - Taxonomy and control p 175 A93-27135	Behavioral effects of high peak power microwave pulses:	iron ions (190 keV/microns) and argon ions (88 keV/microns) p 216 A93-32784
Microbiological methods for the water recovery systems	Head exposure at 1.3 GHz [AD-A258136] p 120 N93-17985	Shielding strategies for human exploration missions
test, revision 1.1	Effects of space radiation on humoral and cellular	[SAE PAPER 921376] p 308 A93-41534 Depth-dose equivalent relationship for cosmic rays at
[NASA-CR-184390] p 64 N93-12966 A paradigm shift in Air Force medicine	immunity in rhesus monkeys	various solar minima p 391 A93-49564
[AD-A258334] p 121 N93-18159	[AD-A261808] p 246 N93-26259 Predicting radiation induced performance decrements	Space radiation health program plan [NASA-TM-108036] p 123 N93-18375
5	of AH-1 helicopter crews. Volume 2: Evaluation of modeling	Target fragmentation in radiobiology
R	and simulation techniques for predicting radiation induced	[NASA-TM-4408] p 124 N93-18381
RADIANT HEATING	performance decrements (AD-A262872) p 351 N93-29484	RADIATION INJURIES Effects of laser glare on visual search performance
Thermal evolution of cometary nuclei by radioactive	Investigation of laser-induced retinal damage	p 180 A93-28158
heating and possible formation of organic chemicals p 196 A93-27561	[AD-A264096] p 338 N93-31094 The Thirteenth AINSE Radiation Biology Conference:	Pharmacological defense of the brain during radiation damage - Some arguments p 240 A93-35217
RADIATION ABSORPTION	Conference handbook	AFRRI reports
Behavioral effects of high peak power microwave pulses:	[DE93-609131] p 338 N93-31225	[AD-A254581] p 49 N93-12649 RADIATION MEASUREMENT
Head exposure at 1.3 GHz [AD-A258136] p 120 N93-17985	RADIATION EFFECTS Effects of error-proofing and	Molecular cytogenetics: A novel approach for measuring
RADIATION CHEMISTRY	chemical/biological/radiation protective glove use on	chromosome translocations in individuals years after
Computational study of radiation chemical processing in comet nuclei p 109 A93-17982	touch panel operation p 186 A93-27152	exposure to low levels of ionizing radiation [DE92-018066] p 5 N93-10974
RADIATION DAMAGE	Single particle effects, Biostack, and risk evaluation - Studies on the radiation risk from Galactic cosmic rays	RADIATION PROTECTION
Potential health risks from postulated accidents involving the Pu-238 RTG on the Ulysses solar exploration	p 202 A93-32243	Methodology for clinical testing of antiradiation means intended for manned space flight conditions
mission p 43 A93-13774	On the biological effects of cosmic rays - Epidemiological studies p 239 A93-34858	p 249 A93-35236
Radiation damage to DNA	studies p 239 A93-34858 Early andrological effects in rats under the combined	Human exposure to galactic cosmic rays in space p 410 A93-54887
[DE92-015760] p 5 N93-10834 Mechanisms of microwave induced damage in biologic	effect of irradiation and vibration p 242 A93-35263	AFRRI reports
materials	Flow cytometric analysis of lymphocyte surface markers	[AD-A254581] p 49 N93-12649
[AD-A255799] p 42 N93-14648 Joint HVAC transmission EMF environmental study	following a 1-Gy dose of gamma radiation p 281 A93-41170	Conceptual design of a fleet of autonomous regolith throwing devices for radiation shielding of lunar habitats
[DE92-017863] p 43 N93-15211	Effects of incandescent radiation on photosynthesis,	[NASA-CR-192078] p 108 N93-17806
Target fragmentation in radiobiology [NASA-TM-4408] p 124 N93-18381	growth rate and yield of 'Waldmann's Green' leaf lettuce p 357 A93-46468	Space radiation health program plan [NASA-TM-108036] p 123 N93-18375
1-4-1000-146-44001 h 154-1420-10001	p 007 7100-40400	[5// /// 100000] p /e0 //00/100/0

RADIATION SHIELDING SUBJECT INDEX

Multi-function visor p 146 N93-19770	RADIOGRAPHY	REACTOR SAFETY
Radiological assessment for Space Station Freedom [NASA-TM-104758] p 128 N93-20303	X Ray System, Lightweight Medical (XRSLM) [AD-A258159] p 123 N93-18295	Human factors engineering: A key element of instrumentation and control system design
RADIATION SHIELDING	RADIOIMMUNOASSAY	[DE93-006731] p 264 N93-25415
Equivalent dose of cosmic rays at representative points	Phadiatop: A screening test for inhalant allergy	REACTOR TECHNOLOGY
of human-body models p 248 A93-35223 Human safety in the lunar environment	p 21 N93-11313 RADIOLOGY	Plasma reactor waste management systems p 68 N93-14000
p 105 N93-16867	X Ray System, Lightweight Medical (XRSLM)	READING
Design of a radiator shade for testing in a simulated lunar environment	[AD-A258159] p 123 N93-18295	Image enhancement filters significantly improve reading performance for low vision observers
[NASA-CR-192080] p 108 N93-17710	Automated system for early breast cancer detection in mammograms p 253 N93-25568	p 167 A93-28723
Conceptual design of a fleet of autonomous regolith	RADIOPATHOLOGY	Coordinated action in 3-D space
throwing devices for radiation shielding of lunar habitats [NASA-CR-192078] p 108 N93-17806	Radiation exposure predictions for long-duration-stay	[AD-A249830] p 31 N93-10994 The adult literacy evaluator: An intelligent
Conceptual design of a fleet of autonomous regolith	Mars missions [AIAA PAPER 92-4584] p 28 A93-13288	computer-aided training system for diagnosing adult
throwing devices for radiation shielding of lunar habitats	Experimental research on the anti-irradiation effects of	illiterates p 258 N93-26082
[NASA-CR-192030] p 139 N93-18018 Preliminary design of a radiator shading device for a	KW-1 - Protective effect on the 5-HT content of tissues in irradiated mice p 3 A93-13542	Expertise, text coherence, and constraint satisfaction: Effects on harmony and settling rate mental
lunar outpost	RANDOM VIBRATION	representations
[NASA-CR-192016] p 139 N93-18019	Investigation of nonlinear dynamic responses to random	[AD-A262703] p 288 N93-28901 REAGENTS
A heat transfer analysis of a mobile vehicle radiation-shielded operator compartment	vibration in dogs p 4 A93-13722 RANKINE CYCLE	Effect of cytoskeletal reagents on stretch activated ion
[DE93-007428] p 264 N93-25318	Thermal control systems for low-temperature heat	channels
Lunar base thermal management/power system analysis and design p 315 N93-27985	rejection on a lunar base	[AD-A261089] p 245 N93-25764 REAL TIME OPERATION
RADIATION THERAPY	[NASA-CR-191286] p 65 N93-13717 RARE GASES	Kalman-filter-based machine vision for controlling
Target fragmentation in radiobiology	Characteristics of the effect of inert gases on in vivo	free-flying unmanned remote vehicles
[NASA-TM-4408] p 124 N93-18381 Measuring the metastatic potential of cancer cells	tissue respiration p 112 A93-23152 RATINGS	p 135 A93-22916 Fusing human and machine skills for remote robotic
p 244 N93-25566	Determinants of performance rating accuracy: A field	operations p 137 A93-24994
RADIATION TOLERANCE	study	Experimental validation of the attention switching
The Thirteenth AINSE Radiation Biology Conference: Conference handbook	[AD-A264726] p 342 N93-30575 Discomfort glare from high-intensity discharge	component of the COGNET framework p 186 A93-27141
[DE93-609131] p 338 N93-31225	headlamps: Effects of context and experience	A teleoperation training simulator with visual and
RADIATION TRANSPORT Track structure model for damage to mammalian cell	[PB93-174720] p 336 N93-30659	kinesthetic force virtual reality p 233 A93-33448 Real-time expert system interfaces, cognitive processes,
cultures during solar proton events p 75 A93-18073	RATIONS Trial of emergency ration of the Spanish Air Force	and task performance - An empirical assessment
RADIATIVE HEAT TRANSFER	p 368 N93-32247	p 394 A93-52503
Correlation of results of radiant heat test and convective heat test for three layered protective clothing	RATS Heterogeneity of changes in lymphoproliferative ability	Line-of-sight determination in real-time simulations [AIAA PAPER 93-3567] p 406 A93-52666
p 194 N93-21161	with increasing age p 79 A93-20662	Neural network retinal model real time implementation
A heat transfer analysis of a mobile vehicle	Dark cycle monitoring of biological specimens on Space	AD-A255652 p 52 N93-14210 Parametric study of diffusion-enhancement networks for
radiation-shielded operator compartment [DE93-007428] p 264 N93-25318	Station Freedom [SAE PAPER 921393] p 274 A93-41551	spatiotemporal grouping in real-time artificial vision
RADIO COMMUNICATION	The neurochemical and neuropharmacological basis of	[AD-A256059] p 58 N93-14580
Influence of aging and practice on piloting tasks p 286 A93-39708	motion sickness [NASA-CR-190957] p 50 N93-13061	Contribution of the analysis of ocular activity (complementary to the electroencephalographic analysis)
RADIO FREQUENCIES	The challenge of biodetection for screening persons	to the detection of low vigilance in instances of piloting
Instrument-approach-plate design considerations for	carrying explosives p 159 N93-21931	a vehicle p 127 N93-19708 Training high performance skills using above real-time
displaying radio frequencies p 289 A93-39574 The locator system for wandering individuals	The acute inhalation toxicity of pyrolysis products of halon 1301	training high performance skills using above real-time
[NASA-TM-104754] p 31 N93-11649	[AD-A260874] p 254 N93-25629	[NASA-CR-192616] p 225 N93-24192
RADIO WAVES Specific absorption rate and radiofrequency	Variations of time-to-incapacitation and carboxyhemoglobin values in rats exposed to two carbon	MAC to VAX connectivity: Heartrate spectral analysis system p 254 N93-25594
current-to-ground in human models exposed to near-field	monoxide concentrations	United States Army space experiment 601
irradiation p 360 A93-47098 RADIOACTIVE DECAY	[DOT/FAA/AM-93/7] p 274 N93-27152	[AD-A261460] p 260 N93-26353 Man-machine cooperation in advanced teleoperation
Thermal evolution of cometary nuclei by radioactive	Electrophoretic separation of cells and particles from rat pituitary and rat spleen	p 366 N93-32106
heating and possible formation of organic chemicals	[NASA-CR-193073] p 276 N93-28415	RECEPTORS (PHYSIOLOGY)
p 196 A93-27561 RADIOACTIVE ISOTOPES	The chronic effects of jP-8 jet fuel exposure on the lungs	Hypoxia-induced downregulation of beta-adrenergic receptors in rat heart p 37 A93-14973
Development of resonance ionization spectroscopy for	[AD-A264162] p 334 N93-30153	Effect of high temperature on the beta-adrenoreceptor
genome mapping and DNA sequencing using stable isotopes as DNA labels	An assessment of peripheral nerve damage in the rat	activity and the catecholamine synthesis p 39 A93-16750
[DE93-007815] p 246 N93-26587	following non-freezing cold exposure: An electrophysiological and histopathological examination	Quantitative autoradiographic analysis of muscarinic
RADIOACTIVE MATERIALS	[AD-A264293] p 331 N93-30818	cholinergic and GABAA (benzodiazepine) receptors in the
Application of RADTRAN to estimation of doses to persons in enclosed spaces	Melatonin, the pineal gland, and circadian rhythms [AD-A264099] p 337 N93-31061	forebrain of rats flown on the Soviet Biosatellite COSMOS 2044 p 156 A93-28743
[DE93-000758] p 97 N93-17230	REACTION KINETICS	Mechanical forces and their second messengers in
Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital	Chiral-symmetry-breaking in nonequilibrium chemical	stimulating cell growth in vitro p 204 A93-33043 8-OH-DPAT does not interfere with habituation to
environment	systems - The racemization influence p 269 A93-36563	motion-induced emesis in cats p 271 A93-38451
[FOA-A-40065-4.5] p 359 N93-32423	Kinetics of peptide hydrolysis and amino acid	Neuropharmacology of motion sickness and emesis -
RADIOBIOLOGY Recommended radiobiological studies for a	decomposition at high temperature space biochemical evolution p 411 A93-53289	A review p 271 A93-39711 Inhibition of EGF-induced signal transduction by
Lunar-Based Chemical/Biological/Medical Analysis	Primary charge separation in isolated photosystem 2	microgravity is independent of EGF receptor redistribution
Laboratory (LBCAL) p 39 A93-17429	reaction centers	in the plasma membrane of human A431 cells p 272 A93-39715
Temporal analysis of the October 1989 proton flare using computerized anatomical models p 216 A93-32785	[DE92-041128] p 82 N93-17189 Regenerable biocide delivery unit, volume 2	Idaverine, an M2- vs. M3-selective muscarinic
On the biological effects of cosmic rays - Epidemiological	[NASA-CR-185701-VOL-2] p 275 N93-27360	antagonist, does not prevent motion sickness in cats
studies p 239 A93-34858	REACTION PRODUCTS Generation of iodine disinfection by-products (IDP's) in	p 327 A93-44878 Prediction of motion sickness susceptibility
DoD space radiation concerns [AD-A253135] p 13 N93-10613	a water recycle system	p 403 A93-55940
AFRRI reports	[SAE PAPER 921362] p 307 A93-41521	RECIRCULATIVE FLUID FLOW
[AD-A254581] p 49 N93-12649	REACTION TIME Multimodal interactions in sensory-motor processing	Effects of air bubble contamination in recirculating water loop
Katz model prediction of Caenorhabditis elegans	[AD-A255780] p 59 N93-15067	[SAE PAPER 921282] p 302 A93-41450
mutagenesis on STS-42 [NASA-TM-4383] p 50 N93-13023	Behavioral effects of high peak power microwave pulses: Head exposure at 1.3 GHz	RECOMMENDATIONS The application of integrated knowledge-based systems
AFRRI Reports Radiobiology	[AD-A258136] p 120 N93-17985	for the Biomedical Risk Assessment Intelligent Network
[AD-A257231] p 80 N93-15965	REACTOR DESIGN	(BRAIN) p 258 N93-25595
Target fragmentation in radiobiology [NASA-TM-4408] p 124 N93-18381	Man-machine interface issues for space nuclear power systems p 60 A93-13907	Automation and robotics human performance [NASA-CR-193049] p 267 N93-26153
The Thirteenth AINSE Radiation Biology Conference:	Sabatier carbon dioxide reduction system for Space	RECOVERY
Conference handbook [DE93-609131] p 338 N93-31225	Station Freedom 1SAE PAPER 921189 p 294 A93-41368	Cardiovascular responses during recovery from exercise and thermal stress p 212 A93-30282
[2230-005101]		

SUBJECT INDEX **RESEARCH FACILITIES**

RECYCLING	Conceptual design of a fleet of autonomous regolith	Human-in-the-loop evaluation of RMS Active Damping
Life support research and development for the	throwing devices for radiation shielding of lunar habitats	Augmentation
Department of Energy Space Exploration Initiative	[NASA-CR-192078] p 108 N93-17806	[AIAA PAPER 93-3875] p 393 A93-51460
p 137 A93-25309	Conceptual design of a fleet of autonomous regolith	Manned lunar surface site: Conceptual study on
Recycling and source reduction for long duration space	throwing devices for radiation shielding of lunar habitats	pressurized lunar surface operation rover
habitation	[NASA-CR-192030] p 139 N93-18018	p 316 N93-28032
[SAE PAPER 921121] p 290 A93-41313	REGRESSION ANALYSIS	REMOTE SENSING
Gray water recycling with a unique vapor compression	Development of the Personnel-based System Evaluation	A low cost helmet-mounted camera/display system for
distillation (VCD) design	Aid (PER-SEVAL) performance shaping functions [AD-A252820] p 26 N93-11779	field testing teleoperator tasks p 408 A93-53122
SAE PAPER 921318 p 304 A93-41480	Perceptual dimensions of visual scenes relevant for	New approaches to the measurement of chlorophyll,
Incineration for resource recovery in a closed ecological	simulating low-altitude flight	related pigments and productivity in the sea
life support system p 409 A93-54826	[AD-A254645] p 57 N93-12662	[NASA-CR-190879] p 42 N93-13612
Technology development for lunar base water	Pilot Candidate Selection Method (PCSM): What makes	JPRS report: Science and technology. Central Eurasia:
recycling p 67 N93-13999	it work?	Life sciences
REDUCTION	[AD-A262871] p 340 N93-29481	[JPRS-ULS-92-020] p 244 N93-25406
Linear tetrapyrroles (phycobilins) in a model	REGULATORY MECHANISMS (BIOLOGY)	REMOTELY PILOTED VEHICLES
prebiological system p 398 A93-53350	Method of selection of astronauts cardiovascular	Eye slaved pointing system for teleoperator control
REDUNDANCY	regulative function under simulated weightlessness	p 101 A93-19090
Collision avoidance of a multiple degree of redundancy	p 91 A93-19995	Kalman-filter-based machine vision for controlling
manipulator operating through a window	Investigation of the character of changes in the 'central'	free-flying unmanned remote vehicles
p 136 A93-23846	temperature of the body in cold environment, using a	p 135 A93-22916
REFLEXES	rabbit-body thermoregulation model p 112 A93-25651	RENAL FUNCTION
Reduced voluntary non-visual suppression of the	Measurement of behavioral thermoregulation	Effects of acute hypoxia on renal and endocrine function
vestibulo-ocular reflex gain during nitrous oxide narcosis	[PB92-217033] p 172 N93-21046	at rest and during graded exercise in hydrated subjects
p 7 A93-10329	Cerebral autoregulation in microgravity	p 93 A93-20035
Spatial disorientation and dysfunction of	p 173 . N93-21112 RELATIVE BIOLOGICAL EFFECTIVENESS (RBE)	Gravitational stress and volume regulation
orientation/equilibrium reflexes - Aeromedical evaluation	Target fragmentation in radiobiology	p 165 A93-28709
and considerations p 8 A93-10336	[NASA-TM-4408] p 124 N93-18381	Renal hemodynamics, tubular function, and response to low-dose dopamine during acute hypoxia in humans
Relation between perception of vertical axis rotation and	RELIABILITY	p 332 A93-44180
vestibulo-ocular reflex symmetry p 214 A93-32176	The problem of the pilot's professional reliability	Effect of water immersion on renal natriuretic peptide
A free-fall flip-over response in rats after the flight	p 410 A93-55334	(uroditatin) excretion in humans p 381 A93-49293
onboard the Cosmos-936 biosatellite	Crucial role of detailed function, task, timeline, link, and	RENDEZVOUS TRAJECTORIES
p 240 A93-35215	human vulnerability analyses in HRA	Operator-assisted planning and execution of proximity
Buspirone blocks cisplatin-induced emesis in cats	[DE93-001923] p 321 N93-28942	operations subject to operational constraints
p 324 A93-42668	The position test: A computer generated process for	p 194 N93-21436
Baroreflex function and cardiac structure with moderate	acquisition of inductive logic thinking	REPRODUCTION (BIOLOGY)
endurance training in normotensive men	p 343 N93-31232	The pineal gland - Its possible roles in human
p 332 A93-44182	RELIABILITY ANALYSIS	reproduction p 204 A93-33036
Effect of transdermally administered scopolamine on the	Instructions and advance training measures for the	Assessment of programs in space biology and
vestibular system in humans p 383 A93-49572	improvement of human reliability	medicine
Evaluation of spontaneous baroreflex response after 28	[MBB-FE-313-S-PUB-0500] p 181 N93-21402	[NASA-CR-190930] p 41 N93-13327
days head down tilt bedrest p 386 A93-52404	Crucial role of detailed function, task, timeline, link, and	Joint HVAC transmission EMF environmental study
Role of orientation reference selection in motion	human vulnerability analyses in HRA	[DE92-017863] p 43 N93-15211
sickness	[DE93-001923] p 321 N93-28942	REQUIREMENTS
[NASA-CR-191912] p 124 N93-18596	Phases of the project development and examination methodologies p 343 N93-31231	Columbus payload requirements in human physiology p 220 N93-24386
Eye-head-arm coordination and spinal reflexes in		
weightlessness p 236 N93-24362	RELIEF MAPS	RESCUE OPERATIONS
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for	RELIEF MAPS An exploratory study of plan-view terrain displays for	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard
weightlessness p 236 N93-24362 Torsional restibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility	RELIEF MAPS An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment)
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING	RELIEF MAPS An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment)
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on	RELIEF MAPS An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system	RELIEF MAPS An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR)
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) AD-A255525 p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue AD-A257704 p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419	RELIEF MAPS An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING)	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255555] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system of large space	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-A-40065-4.5] p 359 N93-32423
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system of large space platforms p 410 A93-55469	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-440065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463	RELIEF MAPS An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system of large space platforms Telescience testbedding for physiological experiments	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-A-40065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system of large space platforms p 410 A93-55469	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-440065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a bioregenerative life-support system	RELIEF MAPS An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system of large space platforms p 410 A93-55469 Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts Simplified Aid For Crew Rescue (SAFR) Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-4-0065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program p 263 A93-35566 Advanced life support systems in lunar and Martian
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system of large space platforms p 410 A93-55469 Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance [AD-A263191] p 321 N93-28941	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-A-40065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program p 263 A93-35566
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a bioregenerative life-support system [SAE PAPER 921359] p 307 A93-41518	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system of large space platforms p 410 A93-55469 Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-A-40065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program p 263 A93-35566 Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a bioregenerative life-support system [SAE PAPER 921359] p 307 A93-41518 Regenerative Life Support Systems [SAE PAPER 921359] p 309 A93-41549	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system of large space platforms Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance [AD-A263191] p 321 N93-28941 REMOTE HANDLING Integrated tools for teleoperated satellite repair	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525]
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a bioregenerative life-support systems [SAE PAPER 921359] p 307 A93-41518 Regenerative Life Support Systems Test Bed performance - Lettuce crop characterization [SAE PAPER 921391] p 309 A93-41549 Utilization of on-site resources for Regenerative Life	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system of large space platforms p 410 A93-55469 Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance [AD-A263191] REMOTE HANDLING Integrated tools for teleoperated satellite repair p 409 A93-54845	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-A-40065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program p 263 A93-35566 Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering paradigm [SAE PAPER 921286] p 302 A93-41452 Review of the space medico-engineering research in China
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a bioregenerative life-support system [SAE PAPER 921359] p 307 A93-41518 Regenerative Life Support Systems Test Bed performance - Lettuce crop characterization [SAE PAPER 921391] p 309 A93-41549 Utilization of on-site resources for Regenerative Life Support Systems at a tunar outpost p 346 A93-42124	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation system of large space platforms p 410 A93-55469 Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance AD-A263191 p 321 N93-28941 REMOTE HANDLING Integrated tools for teleoperated satellite repair p 409 A93-54845 Initial experiments with a myoelectric-based muscle	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts simplified Aid For Crew Rescue (SAFR) p 313 N93-22783 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-4-0065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program p 263 A93-35566 Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering paradigm [SAE PAPER 921286] p 302 A93-41452 Review of the space medico-engineering research in China [AAS PAPER 91-623] p 402 A93-55802
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a bioregenerative life-support system [SAE PAPER 921359] p 307 A93-41518 Regenerative Life Support Systems Test Bed performance - Lettuce crop characterization [SAE PAPER 921391] p 309 A93-41549 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Regenerative life support technology challenges for the	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system of large space platforms Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance [AD-A263191] p 321 N93-28941 REMOTE HANDLING Integrated tools for teleoperated satellite repair p 409 A93-54845 Initial experiments with a myoelectric-based muscle sensor	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255555] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-A-40065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program p 263 A93-35566 Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering paradigm [SAE PAPER 921286] p 302 A93-41452 Review of the space medico-engineering research in China [AAS PAPER 91-623] p 402 A93-55802 Institute for the Study of Human Capabilities
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a bioregenerative life-support system [SAE PAPER 921359] p 307 A93-41518 Regenerative Life Support Systems Test Bed performance - Lettuce crop characterization [SAE PAPER 921391] p 309 A93-41549 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system of large space platforms p 410 A93-55469 Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance [AD-A263191] p 321 N93-28941 REMOTE HANDLING Integrated tools for teleoperated satellite repair p 409 A93-54845 Initial experiments with a myoelectric-based muscle sensor [DE92-016034] p 237 N93-25099	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-A-40065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program p 263 A93-35566 Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering paradigm [SAE PAPER 921286] p 302 A93-41452 Review of the space medico-engineering research in China [AAS PAPER 91-623] p 402 A93-55802 Institute for the Study of Human Capabilities [AD-A256091] p 69 N93-14427
weightlessness p 236 N93-24362 Torsional Vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and bioregenerative life-support system [SAE PAPER 921359] p 307 A93-41518 Regenerative Life Support Systems Test Bed performance - Lettuce crop characterization [SAE PAPER 921391] utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Regenerative life support technology challenges for the Space Exploration Initiative REGENERATION (PHYSIOLOGY)	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system — of large space platforms Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance [AD-A263191] p 321 N93-28941 REMOTE HANDLING Integrated tools for teleoperated satellite repair p 409 A93-54845 Initial experiments with a myoelectric-based muscle sensor [DE92-016034] p 237 N93-25099 REMOTE MANIPULATOR SYSTEM	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-A-40065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program p 263 A93-35566 Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering paradigm [SAE PAPER 921286] p 302 A93-41452 Review of the space medico-engineering research in China [AAS PAPER 91-623] p 402 A93-55802 Institute for the Study of Human Capabilities [AD-A256091] p 69 N93-14427 JPRS report: Science and technology. Central Eurasia:
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a bioregenerative life-support system [SAE PAPER 921359] p 307 A93-41518 Regenerative Life Support Systems Test Bed performance - Lettuce crop characterization [SAE PAPER 921391] p 309 A93-41549 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 REGENERATION (PHYSIOLOGY) Lunar base CELSS: A bioregenerative approach	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system of large space platforms Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance [AD-A263191] p 321 N93-28941 REMOTE HANDLING Integrated tools for teleoperated satellite repair p 409 A93-54845 Initial experiments with a myoelectric-based muscle sensor [DE92-016034] p 237 N93-25099 REMOTE MANIPULATOR SYSTEM Space robotics and its man-machine interface	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-A-40065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program p 263 A93-35566 Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering paradigm [SAE PAPER 921286] p 302 A93-41452 Review of the space medico-engineering research in China IAAS PAPER 91-623] p 402 A93-55802 Institute for the Study of Human Capabilities [AD-A256091] p 69 N93-14427 JPRS report: Science and technology. Central Eurasia: Life sciences
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (RGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a bioregenerative life-support system [SAE PAPER 921359] p 307 A93-41518 Regenerative Life Support Systems Test Bed performance - Lettruce crop characterization [SAE PAPER 921391] p 309 A93-41549 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 REGENERATION (PHYSIOLOGY) Lunar base CELSS: A bioregenerative approach p 67 N93-13993	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system — of large space platforms Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance [AD-A263191] p 321 N93-28941 REMOTE HANDLING Integrated tools for teleoperated satellite repair p 409 A93-54845 Initial experiments with a myoelectric-based muscle sensor [DE92-016034] p 237 N93-25099 REMOTE MANIPULATOR SYSTEM	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-A-40065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program p 263 A93-35566 Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering paradigm [SAE PAPER 921286] p 302 A93-41452 Review of the space medico-engineering research in China [AAS PAPER 91-623] p 402 A93-55802 Institute for the Study of Human Capabilities [AD-A256091] p 69 N93-14427 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-025] p 244 N93-25405
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and bioregenerative life-support system [SAE PAPER 921359] p 307 A93-41518 Regenerative Life Support Systems Test Bed performance - Lettuce crop characterization [SAE PAPER 921391] Utilization of on-site resources for Regenerative Life Support Systems at a tunar outpost p 346 A93-42124 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 REGENERATION (PHYSIOLOGY) Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Nerves and tissue repair	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system of large space platforms p 410 A93-55469 Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance [AD-A263191] REMOTE HANDLING Integrated tools for teleoperated satellite repair p 409 A93-54845 Initial experiments with a myoelectric-based muscle sensor [DE92-016034] REMOTE MANIPULATOR SYSTEM Space robotics and its man-machine interface p 27 A93-11204	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-A-40065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program p 263 A93-35566 Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering paradigm [SAE PAPER 921286] p 302 A93-41452 Review of the space medico-engineering research in China IAAS PAPER 91-623] p 402 A93-55802 Institute for the Study of Human Capabilities [AD-A256091] p 69 N93-14427 JPRS report: Science and technology. Central Eurasia: Life sciences
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (RGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a bioregenerative life-support system [SAE PAPER 921359] p 307 A93-41518 Regenerative Life Support Systems Test Bed performance - Lettruce crop characterization [SAE PAPER 921391] p 309 A93-41549 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 REGENERATION (PHYSIOLOGY) Lunar base CELSS: A bioregenerative approach p 67 N93-13993	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system of large space platforms Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance [AD-A263191] REMOTE HANDLING Integrated tools for teleoperated satellite repair p 409 A93-54845 Initial experiments with a myoelectric-based muscle sensor [DE92-016034] P 237 N93-25099 REMOTE MANIPULATOR SYSTEM Space robotics and its man-machine interface p 27 A93-11204 Dynamic analysis to evaluate viscoelastic passive damping augmentation for the Space Shuttle Remote Manipulator System p 28 A93-12222	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-A-40065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program p 263 A93-35566 Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering paradigm [SAE PAPER 921286] p 302 A93-41452 Review of the space medico-engineering research in China I AAS PAPER 91-623] p 402 A93-55802 Institute for the Study of Human Capabilities (AD-A256091] p 69 N93-14427 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-025] p 244 N93-25405 JPRS report: Science and technology. Central Eurasia:
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a bioregenerative life-support system [SAE PAPER 921359] p 307 A93-41518 Regenerative Life Support Systems Test Bed performance - Lettuce crop characterization [SAE PAPER 921391] p 309 A93-41549 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 REGENERATION (PHYSIOLOGY) Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Nerves and tissue repair [AD-A255299] p 53 N93-14535	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49439 Remote surface inspection system — of large space platforms Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance [AD-A263191] p 321 N93-28941 REMOTE HANDLING Integrated tools for teleoperated satellite repair p 409 A93-54845 Initial experiments with a myoelectric-based muscle sensor [DE92-016034] p 237 N93-25099 REMOTE MANIPULATOR SYSTEM Space robotics and its man-machine interface p 27 A93-11204 Dynamic analysis to evaluate viscoelastic passive damping augmentation for the Space Shuttle Remote Manipulator System p 28 A93-12222 The Space Station Remote Manipulator System	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-A-40065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program p 263 A93-35566 Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering paradigm [SAE PAPER 921286] p 302 A93-41452 Review of the space medico-engineering research in China [AAS PAPER 91-623] p 402 A93-55802 Institute for the Study of Human Capabilities [AD-A256091] p 69 N93-14427 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-025] p 244 N93-25405 JPRS report: Science and technology. Central Eurasia: Life sciences
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a bioregenerative life-support systems [SAE PAPER 921359] p 307 A93-41518 Regenerative Life Support Systems [SAE PAPER 921391] p 309 A93-41549 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 REGENERATION (PHYSIOLOGY) Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Nerves and tissue repair [AD-A255299] Annual report	RELIEF MAPS An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system of large space platforms Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance [AD-A263191] p 321 N93-28941 REMOTE HANDLING Integrated tools for teleoperated satellite repair p 409 A93-54845 Initial experiments with a myoelectric-based muscle sensor [DE92-016034] p 237 N93-25099 REMOTE MANIPULATOR SYSTEM Space robotics and its man-machine interface p 27 A93-11204 Dynamic analysis to evaluate viscoelastic passive damping augmentation for the Space Shuttle Remote Manipulator System p 28 A93-12222 The Space Station Remote Manipulator System	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-A-40065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program p 263 A93-35566 Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering paradigm [SAE PAPER 921286] p 302 A93-41452 Review of the space medico-engineering research in China [AAS PAPER 91-623] p 402 A93-55802 Institute for the Study of Human Capabilities [AD-A256091] p 69 N93-14427 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-025] p 244 N93-25406 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-020] p 244 N93-25406 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-020] p 244 N93-25406 JPRS report: Science and technology. Central Eurasia: Life sciences
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a bioregenerative life-support systems [SAE PAPER 921359] p 307 A93-41518 Regenerative Life Support Systems Test Bed performance - Lettuce crop characterization [SAE PAPER 921391] p 309 A93-41549 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 REGENERATION (PHYSIOLOGY) Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Nerves and tissue repair [AD-A255299] p 53 N93-14535 Annual report [NASA-CR-191389] p 105 N93-16840 A membrane-based subsystem for water-vapor recovery from plant-growth chambers	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system of large space platforms Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance [AD-A263191] REMOTE HANDLING Integrated tools for teleoperated satellite repair p 409 A93-54845 Initial experiments with a myoelectric-based muscle sensor [DE92-016034] P 237 N93-25099 REMOTE MANIPULATOR SYSTEM Space robotics and its man-machine interface p 27 A93-11204 Dynamic analysis to evaluate viscoelastic passive damping augmentation for the Space Shuttle Remote Manipulator System p 28 A93-12222 The Space Station Remote Manipulator System p 138 A93-25487 Robotics evaluation and characterization (REACH) of	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-A-40065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program p 263 A93-35566 Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering paradigm [SAE PAPER 921286] p 302 A93-41452 Review of the space medico-engineering research in China [AAS PAPER 91-623] p 402 A93-55802 Institute for the Study of Human Capabilities [AD-A256091] p 402 A93-55802 Institute for the Study of Human Capabilities [AD-A256091] p 244 N93-25405 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-020] p 244 N93-25406 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-020] p 244 N93-25406 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-022] p 253 N93-25407
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-1913804] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a bioregenerative life-support systems [SAE PAPER 921359] p 307 A93-41518 Regenerative Life Support Systems [SAE PAPER 921391] p 309 A93-41549 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 REGENERATION (PHYSIOLOGY) Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Nerves and tissue repair [AD-A25529] p 53 N93-14535 Annual report [NASA-CR-191389] p 105 N93-16840 A membrane-based subsystem for water-vapor recovery from plant-growth chambers [NASA-CR-177602] p 149 N93-20065	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49439 Remote surface inspection system — of large space platforms p 410 A93-55469 Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance [AD-A263191] p 321 N93-28941 REMOTE HANDLING Integrated tools for teleoperated satellite repair p 409 A93-54845 Initial experiments with a myoelectric-based muscle sensor [DE92-016034] p 237 N93-25099 REMOTE MANIPULATOR SYSTEM Space robotics and its man-machine interface p 27 A93-11204 Dynamic analysis to evaluate viscoelastic passive damping augmentation for the Space Shuttle Remote Manipulator System p 28 A93-1222 The Space Station Remote Manipulator System p 138 A93-25487 Robotics evaluation and characterization (REACH) of the SSRMS concept and technical issues	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-A-40065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program p 263 A93-35566 Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering paradigm [SAE PAPER 921286] p 302 A93-41452 Review of the space medico-engineering research in China [AAS PAPER 91-623] p 402 A93-55802 Institute for the Study of Human Capabilities [AD-A256091] p 69 N93-14427 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-020] p 244 N93-25406 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-0201] p 253 N93-25407 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-0202] p 253 N93-25407 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-0202] p 253 N93-25407 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-0202] p 253 N93-25407 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-0202] p 253 N93-25407
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a bioregenerative life-support system [SAE PAPER 921359] p 307 A93-41518 Regenerative Life Support Systems Test Bed performance - Lettuce crop characterization [SAE PAPER 921391] p 309 A93-41549 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 REGENERATION (PHYSIOLOGY) Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Nerves and tissue repair [AD-A25529] p 53 N93-14555 Annual report [NASA-CR-191389] p 105 N93-16840 A membrane-based subsystem for water-vapor recovery from plant-growth chambers [NASA-CR-177602] p 149 N93-20065	RELIEF MAPS An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system of large space platforms Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance [AD-A263191] p 321 N93-28941 REMOTE HANDLING Integrated tools for teleoperated satellite repair p 409 A93-54845 Initial experiments with a myoelectric-based muscle sensor [DE92-016034] p 237 N93-25099 REMOTE MANIPULATOR SYSTEM Space robotics and its man-machine interface p 27 A93-11204 Dynamic analysis to evaluate viscoelastic passive damping augmentation for the Space Shuttle Remote Manipulator System p 28 A93-12222 The Space Station Remote Manipulator System p 138 A93-25487 Robotics evaluation and characterization (REACH) of the SSRMS concept and technical issues [AIAA PAPER 93-1156] p 230 A93-31031	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-A-40065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program p 263 A93-35566 Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering paradigm [SAE PAPER 921286] p 302 A93-41452 Review of the space medico-engineering research in China [AAS PAPER 91-623] p 402 A93-55802 Institute for the Study of Human Capabilities [AD-A256091] p 69 N93-14427 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-020] p 244 N93-25406 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-0201] p 244 N93-25407 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-0202] p 253 N93-25407 JPRS report: Science and technology. Central Eurasia: Life sciences
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (RGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a bioregenerative life-support systems [SAE PAPER 921399] p 307 A93-41518 Regenerative Life Support Systems Test Bed performance - Lettuce crop characterization [SAE PAPER 921391] p 309 A93-41549 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 REGENERATION (PHYSIOLOGY) Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Nerves and tissue repair [AD-A255299] p 53 N93-14535 Annual report [NASA-CR-17802] p 105 N93-16840 A membrane-based subsystem for water-vapor recovery from plant-growth chambers [NASA-CR-177602] p 149 N93-20065 The USO-concept applied to a biological model experiment p 210 N93-24379	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system of large space platforms Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance [AD-A263191] REMOTE HANDLING Integrated tools for teleoperated satellite repair p 409 A93-54845 Initial experiments with a myoelectric-based muscle sensor [DE92-016034] P 237 N93-25099 REMOTE MANIPULATOR SYSTEM Space robotics and its man-machine interface p 27 A93-11204 Dynamic analysis to evaluate viscoelastic passive damping augmentation for the Space Shuttle Remote Manipulator System p 28 A93-12222 The Space Station Remote Manipulator System p 138 A93-25487 Robotics evaluation and characterization (REACH) of the SSRMS concept and technical issues [AIAA PAPER 93-1156] p 230 A93-31031 Active vibration damping of the Space Shuttle remote	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-A-40065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program p 263 A93-35566 Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering paradigm [SAE PAPER 921286] p 302 A93-41452 Review of the space medico-engineering research in China [AAS PAPER 91-623] p 402 A93-55802 Institute for the Study of Human Capabilities [AD-A256091] p 402 A93-55802 Institute for the Study of Human Capabilities [AD-A256091] p 49 N93-14427 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-020] p 244 N93-25406 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-022] p 253 N93-25407 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-022] p 253 N93-25407 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-93-005] p 276 N93-28683
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-1913804] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a bioregenerative life-support systems [SAE PAPER 921399] p 307 A93-41518 Regenerative Life Support Systems Test Bed performance - Lettuce crop characterization [SAE PAPER 921391] p 309 A93-41549 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 REGENERATION (PHYSIOLOGY) Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Nerves and tissue repair [AD-A25529] p 53 N93-14535 Annual report [NASA-CR-191389] p 105 N93-16840 A membrane-based subsystem for water-vapor recovery from plant-growth chambers [NASA-CR-177602] p 149 N93-20065 The USO-concept applied to a biological model experiment	RELIEF MAPS An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49439 Remote surface inspection system — of large space platforms Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance [AD-A263191] p 321 N93-28941 REMOTE HANDLING Integrated tools for teleoperated satellite repair p 409 A93-54845 Initial experiments with a myoelectric-based muscle sensor [DE92-016034] p 237 N93-25099 REMOTE MANIPULATOR SYSTEM Space robotics and its man-machine interface p 27 A93-11204 Dynamic analysis to evaluate viscoelastic passive damping augmentation for the Space Shuttle Remote Manipulator System p 28 A93-1222 The Space Station Remote Manipulator System p 138 A93-25487 Robotics evaluation and characterization (REACH) of the SSRMS concept and technical issues [AIAA PAPER 93-1156] p 230 A93-31031 Active vibration damping of the Space Shuttle remote manipulator system p 231 A93-31993	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-A-40065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program p 263 A93-35566 Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering paradigm [SAE PAPER 921286] p 302 A93-41452 Review of the space medico-engineering research in China [AAS PAPER 91-623] p 402 A93-55802 Institute for the Study of Human Capabilities [AD-A256091] p 402 A93-55802 Institute for the Study of Human Capabilities [JPRS-ULS-92-025] p 244 N93-25405 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-0201] p 244 N93-25406 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-0202] p 253 N93-25407 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-93-005] p 276 N93-28683 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-93-005] p 276 N93-28683 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-93-005] p 276 N93-28683 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-93-005] p 276 N93-28683 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-93-005] p 276 N93-28683 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-93-005] p 276 N93-28683 JPRS report: Science and technology. Central Eurasia: Life sciences
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a bioregenerative life-support system [SAE PAPER 921359] p 307 A93-41518 Regenerative Life Support Systems Test Bed performance - Lettuce crop characterization [SAE PAPER 921391] p 309 A93-41549 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 REGENERATION (PHYSIOLOGY) Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Nerves and tissue repair [AD-A25529] p 53 N93-14535 Annual report [NASA-CR-191389] p 105 N93-16840 A membrane-based subsystem for water-vapor recovery from plant-growth chambers [NASA-CR-177602] p 149 N93-20065 The USO-concept applied to a biological model experiment p 210 N93-24379	RELIEF MAPS An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system of large space platforms Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance [AD-A263191] p 321 N93-28941 REMOTE HANDLING Integrated tools for teleoperated satellite repair p 409 A93-54845 Initial experiments with a myoelectric-based muscle sensor [DE92-016034] p 237 N93-25099 REMOTE MANIPULATOR SYSTEM Space robotics and its man-machine interface p 27 A93-11204 Dynamic analysis to evaluate viscoelastic passive damping augmentation for the Space Shuttle Remote Manipulator System p 28 A93-12222 The Space Station Remote Manipulator System p 138 A93-25487 Robotics evaluation and characterization (REACH) of the SSRMS concept and technical issues [AIAA PAPER 93-1156] p 230 A93-31031 Active vibration damping of the Space Shuttle remote manipulator system p 231 A93-31993 Manipulator system for module redocking on the Mir	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-A-40065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program p 263 A93-35566 Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering paradigm [SAE PAPER 921286] p 302 A93-41452 Review of the space medico-engineering research in China [AAS PAPER 91-623] p 402 A93-55802 Institute for the Study of Human Capabilities [AD-A256091] p 69 N93-14427 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-020] p 244 N93-25406 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-022] p 253 N93-25407 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-022] p 253 N93-25407 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-022] p 253 N93-25407 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-022] p 257 N93-28683 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-93-005] p 276 N93-28683 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-93-005] p 276 N93-28683 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-93-005] p 276 N93-28683 JPRS report: Science and technology. Central Eurasia: Life sciences
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (RGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a bioregenerative life-support systems [SAE PAPER 921399] p 307 A93-41518 Regenerative Life Support Systems Test Bed performance - Lettuce crop characterization [SAE PAPER 921391] p 309 A93-41549 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 REGENERATION (PHYSIOLOGY) Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Nerves and tissue repair [AD-A255299] p 53 N93-14535 Annual report [NASA-CR-171802] p 105 N93-16840 A membrane-based subsystem for water-vapor recovery from plant-growth chambers [NASA-CR-177602] p 149 N93-20065 The USO-concept applied to a biological model experiment p 210 N93-24379 REGENERATIVE FUEL CELLS SPE water electrolyzers in support of the lunar outpost p 315 N93-27977	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system of large space platforms Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance [AD-A263191] REMOTE HANDLING Integrated tools for teleoperated satellite repair p 409 A93-54845 Initial experiments with a myoelectric-based muscle sensor [DE92-016034] REMOTE MANIPULATOR SYSTEM Space robotics and its man-machine interface p 27 A93-11204 Dynamic analysis to evaluate viscoelastic passive damping augmentation for the Space Shuttle Remote Manipulator System p 138 A93-25487 Robotics evaluation and characterization (REACH) of the SSRMS concept and technical issues [AIAA PAPER 93-1156] p 230 A93-31031 Active vibration damping of the Space Shuttle remote manipulator system p 231 A93-31993 Manipulator system for module redocking on the Mir Orbital Complex p 263 A93-35534	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-A-40065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering paradigm [SAE PAPER 921286] p 302 A93-41452 Review of the space medico-engineering research in China [AAS PAPER 91-623] p 402 A93-55802 Institute for the Study of Human Capabilities [AD-A256091] p 402 A93-55802 Life sciences [JPRS-ULS-92-025] p 244 N93-25405 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-020] p 244 N93-25406 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-021] p 253 N93-25407 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-93-005] p 276 N93-28683 JPRS-ULS-93-005] p 276 N93-28683 JPRS-ULS-92-027] p 276 N93-28683 Life sciences [JPRS-ULS-92-027] p 276 N93-28683 Life sciences [JPRS-ULS-92-027] p 276 N93-28683
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-1913804] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATONS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a bioregenerative life-support systems [SAE PAPER 921359] p 307 A93-41518 Regenerative Life Support Systems Test Bed performance - Lettuce crop characterization [SAE PAPER 921391] p 309 A93-41549 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42128 REGENERATION (PHYSIOLOGY) Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Nerves and tissue repair [AD-A255299] p 53 N93-14535 Annual report [NASA-CR-191389] p 105 N93-16840 A membrane-based subsystem for water-vapor recovery from plant-growth chambers [NASA-CR-177602] p 149 N93-20065 The USO-concept applied to a biological model experiment p 210 N93-24379 REGENERATIVE FUEL CELLS SPE water electrolyzers in support of the lunar outpost P 350 N93-27977	RELIEF MAPS An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49439 Remote surface inspection system — of large space platforms p 410 A93-55469 Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance [AD-A263191] p 321 N93-28941 REMOTE HANDLING Integrated tools for teleoperated satellite repair p 409 A93-54845 Initial experiments with a myoelectric-based muscle sensor [DE92-016034] p 237 N93-25099 REMOTE MANIPULATOR SYSTEM Space robotics and its man-machine interface p 27 A93-11204 Dynamic analysis to evaluate viscoelastic passive damping augmentation for the Space Shuttle Remote Manipulator System p 28 A93-1222 The Space Station Remote Manipulator System p 138 A93-25487 Robotics evaluation and characterization (REACH) of the SSRMS concept and technical issues [AIAA PAPER 93-1156] p 230 A93-31031 Active vibration damping of the Space Shuttle remote manipulator system p 231 A93-31993 Manipulator system p 231 A93-31993 Manipulator system p 263 A93-35544 A force-reflecting teleoperated hand system for the study	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-A-40065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program p 263 A93-35566 Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering paradigm [SAE PAPER 921286] p 302 A93-41452 Review of the space medico-engineering research in China [AAS PAPER 91-623] p 402 A93-55802 Institute for the Study of Human Capabilities [AD-A256091] p 402 A93-55802 Institute for the Study of Human Capabilities [AD-A256091] p 69 N93-14427 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-0205] p 244 N93-25405 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-93-005] p 253 N93-25407 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-93-005] p 276 N93-28683 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-93-005] p 276 N93-28683 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-93-005] p 276 N93-28683 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-93-005] p 276 N93-28683 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-93-005] p 276 N93-28683
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a bioregenerative life-support system [SAE PAPER 921359] p 307 A93-41518 Regenerative Life Support Systems Test Bed performance - Lettruce crop characterization [SAE PAPER 921391] p 309 A93-41549 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 REGENERATION (PHYSIOLOGY) Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Nerves and tissue repair [AD-A25529] p 53 N93-14535 Annual report [NASA-CR-191389] p 105 N93-16840 A membrane-based subsystem for water-vapor recovery from plant-growth chambers [NASA-CR-177602] p 149 N93-20065 The USO-concept applied to a biological model experiment p 315 N93-27977 REGENERATIVE FUEL CELLS SPE water electrolyzers in support of the lunar outpost p 315 N93-27977	RELIEF MAPS An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system of large space platforms Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance [AD-A263191] p 321 N93-28941 REMOTE HANDLING Integrated tools for teleoperated satellite repair p 409 A93-54845 Initial experiments with a myoelectric-based muscle sensor [DE92-016034] p 237 N93-25099 REMOTE MANIPULATOR SYSTEM Space robotics and its man-machine interface p 27 A93-11204 Dynamic analysis to evaluate viscoelastic passive damping augmentation for the Space Shuttle Remote Manipulator System p 28 A93-12222 The Space Station Remote Manipulator System p 138 A93-25487 Robotics evaluation and characterization (REACH) of the SSRMS concept and technical issues [AIAA PAPER 93-1156] p 230 A93-31031 Active vibration damping of the Space Shuttle remain pulator system p 231 A93-31993 Manipulator system for module redocking on the Mir Orbital Complex p 263 A93-35534 A force-reflecting teleoperated hand system for the study of tactile sensing in precision manipulation	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) AD-A255525 p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue AD-A257704 p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment FOA-A-40065-4.5 p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program p 263 A93-35566 Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering paradigm SAE PAPER 921286 p 302 A93-41452 Review of the space medico-engineering research in China IAAS PAPER 91-623 p 402 A93-55802 Institute for the Study of Human Capabilities AD-A256091 p 69 N93-14427 JPRS report: Science and technology. Central Eurasia: Life sciences JPRS-ULS-92-025 p 244 N93-25406 JPRS report: Science and technology. Central Eurasia: Life sciences JPRS-ULS-92-022 p 253 N93-25407 JPRS report: Science and technology. Central Eurasia: Life sciences JPRS-ULS-92-022 p 253 N93-25407 JPRS report: Science and technology. Central Eurasia: Life sciences JPRS-ULS-93-005 p 276 N93-28683 JPRS report: Science and technology. Central Eurasia: Life sciences JPRS-ULS-93-005 p 276 N93-28684 JPRS-ULS-93-005 p 276 N93-28684 JPRS-ULS-93-007 p 276 N93-28684 JPRS-ULS-93-007
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 288 A93-41419 REGENERATION (RGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a bioregenerative life-support systems [SAE PAPER 921399] p 307 A93-41518 Regenerative Life Support Systems Test Bed performance - Lettuce crop characterization [SAE PAPER 921391] p 309 A93-41549 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 REGENERATION (PHYSIOLOGY) Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Nerves and tissue repair [AD-A255299] p 53 N93-14535 Annual report [NASA-CR-177602] p 105 N93-16840 A membrane-based subsystem for water-vapor recovery from plant-growth chambers [NASA-CR-177602] p 149 N93-20065 The USO-concept applied to a biological model experiment p 210 N93-24379 REGENERATIVE FUEL CELLS SPE water electrolyzers in support of the lunar outpost p 375 N93-13998	RELIEF MAPS An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system of large space platforms Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance [AD-A263191] REMOTE HANDLING Integrated tools for teleoperated satellite repair p 409 A93-54845 Initial experiments with a myoelectric-based muscle sensor [DE92-016034] REMOTE MANIPULATOR SYSTEM Space robotics and its man-machine interface p 27 A93-11204 Dynamic analysis to evaluate viscoelastic passive damping augmentation for the Space Shuttle Remote Manipulator System p 28 A93-12222 The Space Station Remote Manipulator System p 138 A93-25487 Robotics evaluation and characterization (REACH) of the SSRMS concept and technical issues [AIAA PAPER 93-1156] p 230 A93-31031 Active vibration damping of the Space Shuttle remote manipulator system p 231 A93-31993 Manipulator system for module redocking on the Mir Orbital Complex p 263 A93-35534 A force-reflecting teleoperated hand system for the study of tactile sensing in precision manipulation p 263 A93-35536	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment [FOA-A-40065-4.5] p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering paradigm [SAE PAPER 921286] p 302 A93-41452 Review of the space medico-engineering research in China [AAS PAPER 91-623] p 402 A93-55802 Institute for the Study of Human Capabilities [AD-A256091] p 402 A93-55802 Life sciences [JPRS-ULS-92-025] p 244 N93-25405 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-020] p 244 N93-25406 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-021] p 253 N93-25407 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-93-005] p 276 N93-28683 JPRS-ULS-93-005] p 276 N93-28683 JPRS-ULS-92-027] p 276 N93-28683 JPRS-ULS-92-027] p 276 N93-28684 RESEARCH FACILITIES LIAC - A closed ecosystem research facility Life In A Can p 347 A93-42129
weightlessness p 236 N93-24362 Torsional vestibulo-ocular reflex measurements for identifying otolith asymmetries possibly related to space motion sickness susceptibility [NASA-CR-193304] p 363 N93-32364 REFRIGERATING Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390 Hybrid oxygen system [AD-A262417] p 317 N93-28464 REFRIGERATORS Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 REGENERATION (ENGINEERING) Development of a regenerable metal oxide sheet matrix CO2 removal system [SAE PAPER 921298] p 302 A93-41463 Biomass productivity and sustainability of a bioregenerative life-support system [SAE PAPER 921359] p 307 A93-41518 Regenerative Life Support Systems Test Bed performance - Lettruce crop characterization [SAE PAPER 921391] p 309 A93-41549 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128 REGENERATION (PHYSIOLOGY) Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Nerves and tissue repair [AD-A25529] p 53 N93-14535 Annual report [NASA-CR-191389] p 105 N93-16840 A membrane-based subsystem for water-vapor recovery from plant-growth chambers [NASA-CR-177602] p 149 N93-20065 The USO-concept applied to a biological model experiment p 315 N93-27977 REGENERATIVE FUEL CELLS SPE water electrolyzers in support of the lunar outpost p 315 N93-27977	RELIEF MAPS An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 REMOTE CONTROL Eye slaved pointing system for teleoperator control p 101 A93-19090 Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155 Transforming human hand motion for telemanipulation p 390 A93-49394 Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443 Remote surface inspection system of large space platforms Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 A study of the effects of lens focal length on remote driver performance [AD-A263191] p 321 N93-28941 REMOTE HANDLING Integrated tools for teleoperated satellite repair p 409 A93-54845 Initial experiments with a myoelectric-based muscle sensor [DE92-016034] p 237 N93-25099 REMOTE MANIPULATOR SYSTEM Space robotics and its man-machine interface p 27 A93-11204 Dynamic analysis to evaluate viscoelastic passive damping augmentation for the Space Shuttle Remote Manipulator System p 28 A93-12222 The Space Station Remote Manipulator System p 138 A93-25487 Robotics evaluation and characterization (REACH) of the SSRMS concept and technical issues [AIAA PAPER 93-1156] p 230 A93-31031 Active vibration damping of the Space Shuttle remain pulator system p 231 A93-31993 Manipulator system for module redocking on the Mir Orbital Complex p 263 A93-35534 A force-reflecting teleoperated hand system for the study of tactile sensing in precision manipulation	RESCUE OPERATIONS Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) AD-A255525 p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue AD-A257704 p 107 N93-17697 TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268 Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793 Micro-organisms, cytotoxins and radioactive preparation: Risks at rescue operations in hospital environment FOA-A-40065-4.5 p 359 N93-32423 RESEARCH AND DEVELOPMENT NASA's telerobotics research program p 263 A93-35566 Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering paradigm SAE PAPER 921286 p 302 A93-41452 Review of the space medico-engineering research in China IAAS PAPER 91-623 p 402 A93-55802 Institute for the Study of Human Capabilities AD-A256091 p 69 N93-14427 JPRS report: Science and technology. Central Eurasia: Life sciences JPRS-ULS-92-025 p 244 N93-25406 JPRS report: Science and technology. Central Eurasia: Life sciences JPRS-ULS-92-022 p 253 N93-25407 JPRS report: Science and technology. Central Eurasia: Life sciences JPRS-ULS-92-022 p 253 N93-25407 JPRS report: Science and technology. Central Eurasia: Life sciences JPRS-ULS-93-005 p 276 N93-28683 JPRS report: Science and technology. Central Eurasia: Life sciences JPRS-ULS-93-005 p 276 N93-28684 JPRS-ULS-93-005 p 276 N93-28684 JPRS-ULS-93-007 p 276 N93-28684 JPRS-ULS-93-007

RESEARCH MANAGEMENT SUBJECT INDEX

HESEARCH MANAGEMENT		SUBJECTINDE
The USO-concept applied to a biological model	Hemodynamic effects of altitude exposure and oxygen	Evaluation of test methods and requirements for
experiment p 210 N93-24379	administration in chronic obstructive pulmonary disease	respiratory protection systems 21
Columbus payload requirements in human physiology p 220 N93-24386	p 383 A93-49571	[AD-A262466] p 317 N93-2875 Evaluation and optimization of a flexible filtration system
RESEARCH MANAGEMENT	Allergic, Immunological and Infectious Disease Problems in Aerospace Medicine	for respiratory protection system 21
Radiation physics, biophysics, and radiation biology	[AGARD-CP-518] p 14 N93-11283	[AD-A262467] p 284 N93-28756
[DE92-013673] p.6 N93-12266	Communicable diseases: A major burden of morbidity	RESPONSE BIAS
Proceedings of a Workshop on Molecular Nuclear Medicine	and mortality p 18 N93-11300	Perceptual bias for forward-facing motion p 339 A93-44940
[DE93-010828] p 285 N93-28835	Epidemiologic view of allergic diseases in North America: Implications for aerospace medicine p 20 N93-11311	Super auditory localization for improved human-machine
RESEARCH PROJECTS	The screening of inhalant allergic diseases in the	interfaces
Radiation physics, biophysics, and radiation biology DE92-013673 p 6 N93-12266	selection of candidates for aircraft piloting	[AD-A254699] p 34 N93-12229 RESPONSES
Earth to lunar CELSS evolution p 351 N93-29727	p 21 N93-11312 Phadiatop: A screening test for inhalant allergy	Cardiovascular responses during recovery from exercise
Design of biomass management systems and	p 21 N93-11313	and thermal stress p 212 A93-30282
components for closed loop life support systems	In vivo and in vitro diagnosis of allergic respiratory	REST
p 351 N93-29728 Exercise/recreation facility for a lunar or Mars analog	disease during screening procedures in the Italian Navy:	Effects of acute hypoxia on renal and endocrine function at rest and during graded exercise in hydrated subjects
p 352 N93-29733	Comparative evaluation of a recent quantitative automatized enzyme immunoassay method to dose	p 93 A93-20035
Automation of closed environments in space for human	specific tgE p 21 N93-11314	RESUSCITATION
comfort and safety p 352 N93-29734 Mars habitat p 352 N93-29747	Asthma in aircrew: Assessment, treatment and	Systemic and pulmonary hypertension after resuscitation
GENESIS 2: Advanced lunar outpost	disposition p 21 N93-11315 Allergic and nonallergic minitis in Greek pilots	with cell-free hemoglobin [AD-A258185] p 120 N93-17900
p 352 N93-29760	p 21 N93-11317	RETENTION (PSYCHOLOGY)
An annotated bibliography of research involving women,	Evaluation of NO(x)-induced toxicity	Aging, expertise, and narrative processing
conducted at the US Army Research Institute of Environmental Medicine	[AD-A261034] p 283 N93-28122	p 180 A93-28724 RETICLES
[AD-A265497] p 360 N93-31917	RESPIRATORY PHYSIOLOGY Modulation of respiratory responses to carotid sinus	Eye slaved pointing system for teleoperator control
RESEARCH VEHICLES	nerve stimulation by brain hypoxia p 79 A93-20038	p 101 A93-19090
A study of the effects of lens focal length on remote driver performance	Operation Everest II - Gas tensions in expired air and	RETINA Melatonin and its precursors in Y79 human
[AD-A263191] p 321 N93-28941	arterial blood at extreme altitude p 117 A93-24043 Pulmonary responses to lower body negative pressure	retinoblastoma cells - Effect of sodium butyrate
RESIDUAL GAS	and fluid loading during head-down tilt bedrest	p 214 A93-32120
Design of ion source of respiratory mass spectrometer	p 162 A93-28682	Microwaves and the visual analyzer
p 11 A93-13713	Cardiopulmonary function during 10 days of head-down tilt bedrest p 162 A93-28683	p 250 A93-35247 Intraocular pressure and retinal vascular changes during
Chemical characterization of some aqueous leachates	tilt bedrest p 162 A93-28683 Assessing pilot workload - Why measure heart rate, HRV	transient exposure to microgravity p 278 A93-39710
from crop residues in 'CELSS' p 115 N93-19399	and respiration? p 168 A93-28741	Analysis of retinal function following laser irradiation
RESISTORS Investigation into the common mode rejection ratio of	Effect of chronic hypoxia on hypoxic ventilatory response	[AD-A255649] p 52 N93-14163 Neural network retinal model real time implementation
the physiological signal conditioner circuit	in awake rats p 323 A93-42187 Problems of respiratory physiology during space flight	[AD-A255652] p 52 N93-14210
p 245 N93-26073	p 332 A93-44849	Retinal modeling: Segmenting motion from
RESONANCE	Asthma in aircrew: Assessment, treatment and	spatio-temporal inputs using neural networks
Development of resonance ionization spectroscopy for genome mapping and DNA sequencing using stable	disposition p 21 N93-11315	[AD-A258854] p 125 N93-19369 Computer based analysis and synthesis of retinal
isotopes as DNA labels	Cardiopulmonary discipline science plan [NASA-TM-108040] p 125 N93-19648	function
[DE93-007815] p 246 N93-26587	Respiratory response to varying degrees of tilt and lower	[AD-A260514] p 221 N93-24420
RESONANT FREQUENCIES Investigation of nonlinear dynamic responses to random	body negative pressure p 173 N93-21114	JPRS report: Science and technology. Central Eurasia: Life sciences
vibration in dogs p 4 A93-13722	RESPIRATORY RATE Changes in the brain blood flow and respiration during	[JPRS-ULS-92-025] p 244 N93-25405
RESOURCES MANAGEMENT	psychoemotional stress p 252 A93-36723	Receptoral and neural aliasing
The next generation female in cockpit: Do we need a	Respiration curves as an index of pilot workload	[AD-A261438] p 261 N93-26489
new approach to cockpit resource management (CRM)? p 143 N93-19704	p 332 A93-45320 RESPIRATORY REFLEXES	Analysis of visual loss from retinal lesions [AD-A264692] p 336 N93-30494
RESPIRATION	Efficiency of using iterative hypoxic hypercapnic stimuli	A simple computational model of center-surround
Design of ion source of respiratory mass spectrometer	for enhancing cardiorespiratory reserves under the effect	receptive fields in the retina
p 11 A93-13713	of radial accelerations p 249 A93-35244 Hypoxic ventilatory responsiveness in Tibetan compared	[AD-A264723] p 336 N93-30515 An algorithm for simple and complex feature detection:
Determinants of poststimulus potentiation in humans during NREM sleep p 78 A93-20034	with Han residents of 3,658 m p 280 A93-41120	From retina to primary visual cortex
Characteristics of the effect of inert gases on in vivo	Effect of chronic hypoxia on hypoxic ventilatory response	[AD-A264306] p 337 N93-30897
tissue respiration p 112 A93-23152	in awake rats p 323 A93-42187	Photoreceptors regulating circadian behavior: A mouse model
Metabolic factors influencing myocardial recovery from	Mechanisms of improved arterial oxygenation after peripheral chemoreceptor stimulation during hypoxic	[AD-A264881] p 337 N93-30908
acidosis (CiC3) [AD-A252376] p 14 N93-10796	exercise p 331 A93-42188	Investigation of laser-induced retinal damage
The production and use of aeroponically grown inocula	RESPIRATORY SYSTEM	[AD-A264096] p 338 N93-31094 RETINAL IMAGES
of VAM fungi in the native plant nursery	The response of medullar respiratory neurons to the stimulation of the amygdaloid nuclei under hypoxia	Model for the computation of self-motion in biological
[PB92-204973] p 43 N93-15208	p 2 A93-12860	systems p 97 A93-17673
Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164	Control of breathing under conditions of altered	Human tow vision image warping - Channel matching
Closed Ecological Life Support Systems (CELSS) Test	atmospheric density during muscular work	considerations p 231 A93-32444 Retinal information processing for minimum laser lesion
Facility p 233 N93-22628	Parameters of external breathing in an excess-pressure	detection and cumulative damage
A linear, time-varying simulation of the respiratory tract	atmosphere p 76 A93-18298	[AD-A259195] p 171 N93-20563
system	An analysis of the respiratory muscle fatigue under	Modelling and simulation of human retinal vision
DE93-004515 p 218 N93-24009	resistive loading when breathing gas mixtures containing different amounts of oxygen p 76 A93-18299	processing p 335 N93-30269 RETINENE
Monitoring of cardiovascular parameters during the AustroMir space flight p 220 N93-24367	Gas composition in the blood of rabbits exposed to a	Changes in vitamin A status following prolonged
The acute inhalation toxicity of pyrolysis products of	high-pressure atmosphere under conditions of	immobilization (simulated weightlessness)
halon 1301	spontaneous and forced ventilation p 77 A93-18301 Informative value of the rerespiration method for	p 166 A93-28720
[AD-A260874] p 254 N93-25629	evaluating the functional resources of the cardiorespiratory	RETRIEVAL
Evaluation of test methods and requirements for respiratory protection systems 21	system during the simulation of certain flight factors	Technology test results from an intelligent, free-flying robot for crew and equipment retrieval in space
[AD-A262466] p 317 N93-28757	p 248 A93-35222	p 184 A93-27037
RESPIRATORS	Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO	REVERBERATION CHAMBERS
Physiological effects of positive pressure ventilation	21)	Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583
[AD-A254809] p 49 N93-12751 Evaluation and optimization of a flexible filtration system	[AD-A253393] p 30 N93-10217	three-dimensional audio systems p 257 A93-36583 REVERSE OSMOSIS
for respiratory protection system 21	Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21)	Modeling of membrane processes for air revitalization
[AD-A262467] p 284 N93-28758	[AD-A253394] p 30 N93-10288	and water recovery
RESPIRATORY DISEASES	A linear, time-varying simulation of the respiratory tract	[SAE PAPER 921352] p 306 A93-41511
Potential health effects of fume particles on the crew of spacecrafts	system (DE93-004515) p 218 N93-24009	High-recovery low-pressure reverse osmosis (SAE PAPER 921353) p 306 A93-41512
SAE PAPER 921387 p 308 A93-41545	[DE93-004515] p 218 N93-24009 The acute inhalation toxicity of pyrolysis products of	RHEOENCEPHALOGRAPHY
Coccidioidomycosis - A persistent threat to deployed	halon 1301	The role of rheoencephalography in the practice of
populations p 380 A93-49228	[AD-A260874] p 254 N93-25629	aviation medicine p 160 A93-27649

SUBJECT INDEX **ROBOTS**

		1100010
RHYTHM (BIOLOGY)	Manipulator system for module redocking on the Mir	A space manipulator with inertially fixed base?
Chronobiology in a moon-based chemical analysis and	Orbital Complex p 263 A93-35534	[AIAA PAPER 93-3866] p 393 A93-51452
physiologic monitoring laboratory p 48 A93-17439	A force-reflecting teleoperated hand system for the study	Intelligent sensing and control for advanced
Human biorhythms following interregional travel (with reference to Novosibirsk-Vladivostok flights)	of tactile sensing in precision manipulation p 263 A93-35536	teleoperation p 409 A93-54158
p 247 A93-35214	HERA - A reliable and safe space robot	Design requirements for force reflecting master controllers p 139 N93-18035
Effectiveness of birthdate biorhythm theory on flight	p 263 A93-35571	A vision system planner for increasing the autonomy
accidents p 127 N93-19710	Research of a free-flying telerobot. IV - Development	of the Extravehicular Activity Helper/Retriever
The effects of an antijet lag diet p 370 N93-32263	of dual-arm manipulation system p 411 A93-56254 Research of a free-flying telerobot. V - Handling a target	[NASA-CR-193301] p 365 N93-31844
RIBONUCLEIC ACIDS	with multi-arms p 411 A93-56255	ROBOT DYNAMICS Initial experiments on the end-point control of a 2-DOF
Clinical and diagnostic requirements - Biochemical exploration of amino acid metabolism, tRNA turnover and	Skill compensation and dynamic coupling of	long-reach elastic manipulator p 183 A93-27024
lymphocyte activation p 49 A93-17442	macro/smart effector system p 411 A93-56260	Grasp synthesis for planar and solid objects
Experimental studies on the origin of the genetic code	TeleOperator/telePresence System (TOPS) Concept Verification Model (CVM) development	p 184 A93-27034
and the process of protein synthesis - A review update	p 367 N93-32112	Testbed for remote telepresence research p 193 A93-29135
p 73 A93-17822	ROBOT CONTROL	Intelligent virtual interfaces for telerobotics
The evolution of aminoacyl-tRNA synthetases, the biosynthetic pathways of amino acids and the genetic	Space robotics and its man-machine interface	p 193 A93-29136
code p 73 A93-17825	p 27 A93-11204 Teleoperation to robotics at Langley Research Center	Robot free-flyers in space extravehicular activity p 193 A93-29141
Caenorhabditis elegans - A model system for space	p 101 A93-18569	Visual specification of robot motion
biology studies p 80 A93-20665	Evaluation of inertial devices for the control of large,	p 348 A93-42845
Selection of a ribozyme that functions as a superior	flexible, space-based telerobotic arms	Motion planning of a dual-arm free-floating manipulator
template in a self-copying reaction p 111 A93-22053 Nucleotide analogs based on pentaerythritol - An	p 101 A93-18710 Space based robot manipulators - Dynamics of contact	with inertially fixed base [AIAA PAPER 93-3864] p 393 A93-51450
hypothesis p 325 A93-43794	and trajectory planning for impact minimization	Optimal manipulator trajectories for space robots
In vitro selection of optimal DNA substrates for T4 RNA	p 135 A93-22827	[AAS PAPER 91-669] p 410 A93-55838
ligase p 329 A93-44939	Collision avoidance of a multiple degree of redundancy	EVA and telerobot interaction p 312 N93-27792
Ribozymes - A distinct class of metalloenzymes p 398 A93-54163	manipulator operating through a window p 136 A93-23846	ROBOT SENSORS Accuracy of locating circular features using machine
Group II intron RNA catalysis of progressive nucleotide	Initial experiments on the end-point control of a 2-DOF	vision for robotic systems p 182 A93-27022
insertion - A model for RNA editing p 398 A93-55292	long-reach elastic manipulator p 183 A93-27024	Initial experiments on the end-point control of a 2-DOF
Oligomerization reactions of ribonucleotides - The	World model and its uncertainty in supervisory robot	long-reach elastic manipulator p 183 A93-27024
reaction of the 5'-phosphorimidazolide of adenosine with diadenosine pyrophosphate on montmorillonite and other	control p 183 A93-27027 Emergence of telerobotic control enhancement from	Vision navigator for free-flying robots p 183 A93-27025
minerals p 412 A93-55998	research in machine autonomy p 183 A93-27028	Incorporating robot vision in tele-autonomous systems
A model for the prebiotic synthesis of peptides which	A telerobotic virtual control system	p 184 A93-27031
throws light on the origin of the genetic code and the	p 183 A93-27030	Interactive Scene Analysis Module - A sensor-database
observed chirality of life p 412 A93-56000 Isolation of new ribozymes from a large pool of random	Incorporating robot vision in tele-autonomous systems p 184 A93-27031	fusion system for telerobotic environments p 184 A93-27032
sequences p 400 A93-56548	Interactive Scene Analysis Module - A sensor-database	A modular head/eye platform for real-time reactive
Mechanisms of microwave induced damage in biologic	fusion system for telerobotic environments	vision
materials	p 184 A93-27032	[OUEL-1941/92] p 320 N93-28897
[AD-A255799] p 42 N93-14648 Characterization and classification of strains of	Real time proximity cues for teleoperation using model based force reflection p 184 A93-27033	Interactive and cooperative sensing and control for advanced teleoperation p 366 N93-32108
Francisella tularensis isolated in the central Asian focus	Evaluating robot procedures and tasks for the flight	ROBOTICS
of the Soviet Union and in Japan	telerobotic servicer p 187 A93-27156	Teleoperation to robotics at Langley Research Center
[FOA-B-40421-4.4] p 275 N93-28200	Flight Telerobotic Servicer legacy p 190 A93-29106 Teleprogramming a cooperative space robotic workcell	p 101 A93-18569
Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia	for Space Station p 190 A93-29109	The strategic role of automation and robotics for Columbus utilization p 181 A93-26567
[FOA-B-40422-4.4] p 275 N93-28212	Person-like intelligent systems architectures for robotic	Future needs for space robots for SEI Space
Mechanisms of microwave induced damage in biologic	shared control and automated operations	Exploration Initiative p 182 A93-27002
materials	p 191 A93-29113	Characteristics and requirements of robotic manipulators
[AD-A264415] p 358 N93-32035 RIBOSE	Recent developments at the Goddard Engineering Test Bed for force reflecting teleoperation system	for space operations p 182 A93-27003 Grasp synthesis for planar and solid objects
Nucleotide analogs based on pentaerythritol - An	p 192 A93-29115	p 184 A93-27034
hypothesis p 325 A93-43794	Human-like agents with posture planning ability	Intelligent robotics capabilities of the teleautonomy
RIMS	p 192 A93-29118 A distributed telerobotics system for space operations	testbed p 184 A93-27035
Wheels for wheelchairs and the like [NASA-CASE-MFS-28632-1] p 106 N93-17042	p 192 A93-29132	Cooperative intelligent robotics in space III; Proceedings of the Meeting, Boston, MA, Nov. 16-18, 1992
RISK	Testbed for remote telepresence research	[SPIE-1829] p 190 A93-29101
Potential health risks from postulated accidents involving	p 193 A93-29135	An overview of the dynamic predictive architecture for
the Pu-238 RTG on the Ulysses solar exploration	Robot free-flyers in space extravehicular activity p 193 A93-29141	robotic assistants p 191 A93-29112
mission p 43 A93-13774 Fires on board aircraft: Toxicological risk in flight	Development of a large space robot - A multi-segment	Person-like intelligent systems architectures for robotic shared control and automated operations
p 126 N93-19694	approach. I	p 191 A93-29113
The application of integrated knowledge-based systems	[AIAA PAPER 93-1463] p 261 A93-34012	Robotics evaluation and characterization (REACH) of
for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595	Visual specification of robot motion p 348 A93-42845	the SSRMS concept and technical issues [AIAA PAPER 93-1156] p 230 A93-31031
Cardiovascular Risk Factors (CVRF) in Spanish pilots	Kinematics and control of a fully parallel force-reflecting	[AIAA PAPER 93-1156] p 230 A93-31031 Physical and digital simulations for IVA robotics
with coronary artery disease demonstrated by angiographic	hand controller for manipulator teleoperation	p 391 A93-49445
studies p 362 N93-32253	p 364 A93-45598	Motion planning of a dual-arm free-floating manipulator
Results and management of pathological lipoprotein concentrations and other cardiovascular risk factors in	Designs and development of a master-slave teleoperated robot p 390 A93-49357	with inertially fixed base [AIAA PAPER 93-3864] p 393 A93-51450
military pilots of the German Federal Armed Forces	Transforming human hand motion for telemanipulation	A space manipulator with inertially fixed base?
p 363 N93-32254	p 390 A93-49394	[AIAA PAPER 93-3866] p 393 A93-51452
ROBOT ARMS	Interactive and cooperative sensing and control for	Integrated tools for teleoperated satellite repair
Microgravity flight testing of a laboratory robot [AAS PAPER 91-035] p 62 A93-15583	advanced teleoperation p 391 A93-49443	p 409 A93-54845 Design, construction, and control of a two
Evaluation of inertial devices for the control of large,	A procedure for the frequency analysis of telerobotic tasks data p 392 A93-50513	degree-of-freedom electric direct-drive human power
flexible, space-based telerobotic arms	tasks data p 392 A93-50513 Ground-remote control for space station telerobotics	amplifier p 65 N93-13486
p 101 A93-18710	with time delay	Architecture of autonomous systems
Evaluating robot procedures and tasks for the flight telerobotic servicer p 187 A93-27156	[AAS PAPER 92-052] p 392 A93-50592	[NASA-CR-192974] p 266 N93-26047 Automation and robotics human performance
An experiment in vision based autonomous grasping	Telerobot control mode performance assessment	[NASA-CR-193049] p 267 N93-26153
within a reduced gravity environment	[AAS PAPER 92-053] p 392 A93-50593	A vision system planner for increasing the autonomy
p 193 A93-29137	A manipulator control testbed - Implementation and applications	of the Extravehicular Activity Helper/Retriever
Centralized, decentralized, and independent control of a flexible manipulator on a flexible base	[AAS PAPER 92-054] p 392 A93-50594	[NASA-CR-193301] p 365 N93-31844 ROBOTS
p 231 A93-31517	Theoretical and experimental studies for continuous path	Vision navigator for free-flying robots
EMATS, a robot-based Equipment Manipulation and	control of flexible manipulator mounted on a free-flying	p 183 A93-27925
Transportation System for the Columbus Free Flying	space robot LAIAA PAPER 93-3863 L p 392 A93-51449	Technology test results from an intelligent, free-flying
Laboratory p 231 A93-31522 Development of a large space robot - A multi-segment	[AIAA PAPER 93-3863] p 392 A93-51449 Motion planning of a dual-arm free-floating manipulator	robot for crew and equipment retrieval in space p 184 A93-27037
approach. II	with inertially fixed base	Ground-based control of Space Station Freedom-based
[AIAA PAPER 93-1464] p 262 A93-34013	[AIAA PAPER 93-3864] p 393 A93-51450	robots p 263 A93-35570

p 70 N93-14713

p 106 N93-17045

Passive zero-gravity leg restraint [NASA-CASE-ARC-11882-1-CU]

Portable seat lift [NASA-CASE-MFS-28610-1]

ROBUSTNESS (MATHEMATICS)

SATELLITE OBSERVATION

Life sciences

[JPRS-ULS-92-020]

JPRS report: Science and technology. Central Eurasia:

p 244 N93-25406

Physical and digital simulations for IVA robotics
p 391 A93-49445
The perception of articulated motion: Recognizing
moving light displays
[7:12 : 12200 : 0]
Initial experiments with a myoelectric-based muscle sensor
[DE92-016034] p 237 N93-25099
A vision system planner for increasing the autonomy
of the Extravehicular Activity Helper/Retriever
[NASA-CR-193301] p 365 N93-31844
Integration of advanced teleoperation technologies for
control of space robots p 366 N93-32107
TeleOperator/telePresence System (TOPS) Concept
Verification Model (CVM) development
p 367 N93-32112
ROBUSTNESS (MATHEMATICS)
3-D surface description from binocular stereo p 61 A93-14727
The use of voice processing for some aspects of the
pilot-vehicle-interface in an aircraft p 146 N93-19772
A robust model for finding optimal evolutionary trees
[DE93-010682] p 330 N93-30483
ROCKET FLIGHT
Results of experiments on the exploration of genetic
effect of rocket flight factors with Drosophila
melanogaster p 1 A93-11691
ROTARY WING AIRCRAFT
Retroperitoneal fibrosis as a cause of hypertension in
an aviator - A case report p 212 A93-30284 ROTARY WINGS
Helicopter simulation: An aircrew training and
qualification perspective p 342 N93-30676
NOTATING ENVIRONMENTS
Factors influencing perceived angular velocity
p 97 A93-17800
Clinostats and centrifuges: Their use, value, and
limitations in gravitational biological research; Symposium,
Washington, Oct. 19, 1991, Report p 375 A93-49206
The internal dynamics of slowly rotating biological systems p 375 A93-49208
systems p 375 A93-49208 Centrifuges - Evolution of their uses in plant gravitational
biology and new directions for research on the ground
and in spaceflight p 376 A93-49211
The fast rotating clinostat - A history of its use in
gravitational biology and a comparison of ground-based
and flight experiment results p 376 A93-49212
How well does the clinostat mimic the effect of
microgravity on plant cells and organs? p 376 A93-49213
·
Rotational speed control p 365 N93-31457
IOTATION
Relation between perception of vertical axis rotation and vestibulo-ocular reflex symmetry p 214 A93-32176
Vestibular afferent responses to microrotational stimuli p 328 A93-44930
The neurochemical and neuropharmacological basis of
motion sickness
[NASA-CR-190957] p 50 N93-13061
ROUTES
A preliminary empirical evaluation of virtual reality as
an instructional medium for visual-spatial tasks
p 367 N93-32151
RUNNING
Energetics of walking and running - Insights from
simulated reduced-gravity experiments
p 116 A93-21687
Effects of running the Bostom Marathon on plasma
concentrations of large neutral amino acids
p 160 A93-27048
S
3

Effects of running the Bostom M concentrations of large neutral amino	larathon acids	on plasma		
Solidonia di la gr	p 160	A93-27048		
	•			
S				
SABATIER REACTION				
Sabatier carbon dioxide reduction	system	for Space		
Station Freedom				
[SAE PAPER 921189]	p 294	A93-41368		
SACCADIC EYE MOVEMENTS				
Predictable eye-head coordination during driving				
	p 57	A93-16373		
Involuntary attentional capture by abrupt onsets				
		A93-17974		
Eye movements and visual information processing				
[AD-A250198]		N93-10278		
Coordinated action in 3-D space				
(AD-A249830)	p 31	N93-10994		
Multimodal interactions in senso	rv-motor	processing		
[AD-A255780]		N93-15067		
Eve movements and visual informa	•			
[AD-A259955]		N93-24297		
•	ب ددی	1130-24231		
SAFETY HERA - A reliable and safe space:	robot			
HEHA - A reliable and sale space	p 263	A93-35571		
	U 203	M33-333/ I		

	SUBJECT INDEX
The color of the color	CATELLITE DADME MATERIAL
The relationship between computer scoring and safety-pilot grading of flight performance	SATELLITE-BORNE INSTRUMENTS Machine vision in space p 395 A93-52641
[AD-A256245] p 58 N93-14600	SCALE EFFECT Perceptual scaling of whole-body low frequency linear
Upper interior head protection. Volume 1. The development of a research test procedure	oscillatory motion p 379 A93-49225
[PB93-113769] p 194 N93-21537	SCALE MODELS Human factors evaluation of the HL-20 full-scale
Gene transcription and electromagnetic fields [DE93-010854] p 276 N93-28848	model p 409 A93-53746
SAFETY DEVICES	SCALING LAWS Multidimensional scaling analysis of terrain features
Physiological stress from chemical defense clothing and equipment	relevant for simulating low-altitude flight
[AD-A255786] p 51 N93-14028	p 188 A93-27186 SCENE ANALYSIS
Design of a reusable kinetic energy absorber for an astronaut safety tether to be used during extravehicular	3-D surface description from binocular stereo
activities on the Space Station	p 61 A93-14727 Transfer effects of scene content and crosswind in
[NASA-CR-192015] p 139 N93-17973 The challenge of biodetection for screening persons	landing instruction p 62 A93-15665 Interactive Scene Analysis Module - A sensor-database
carrying explosives p 159 N93-21931	fusion system for telerobotic environments
SAFETY FACTORS A method for the theoretical calculation of the	p 184 A93-27032 Flight mechanics of high-performance aircraft
parameters of single-stage decompression with equal	[ISBN 0-521-34123-X] p 365 A93-47019
probability of safety p 160 A93-26832 Safety issues of manipulator systems under computer	Auditory spectro-temporal pattern analysis [AD-A264691] p 361 N93-31981
control p 192 A93-29121	SCHEDULES
Cockpit checklists - Concepts, design, and use p 389 A93-52506	The effect of combat on the work/rest schedules and fatigue of A-6 and F-14 aviators during Operation Desert
The limits of human impact acceleration tolerance	Shield/Storm [AD-A258146] p 122 N93-18292
[AIAA PAPER 93-3572] p 400 A93-52692 Human engineering issues for data link systems	SCHEDULING
[SAE ARD 50027] p 410 A93-54874 Studies of safety, infectivity, and immunogenicity of a	Subjective fatigue in A-6, F-14, and F/A-18 aircrews during operations Desert Shield and Storm
new Temperature Sensitive (TS) 51-1 strain of S. typhi	[AD-A259243] p 171 N93-20580
as a new live oral typhoid fever vaccine candidate p 19 N93-11306	The use of electrophysiological and cognitive variables in the assessment of degradation during periods of
Recent lessons on the safety and effectiveness of	sustained wakefulness
malaria chemoprophylaxis in a non-immune population p 19 N93-11307	[AD-A263033] p 283 N93-27923 SCHOOLS
Epidemiologic view of allergic diseases in North America:	Ground based simulation in test and evaluation education
Implications for aerospace medicine p 20 N93-11311 Improved inhalation technology for setting safe exposure	[AIAA PAPER 92-4066] p 24 A93-11252
levels for workplace chemicals p 174 N93-22164 SAFETY MANAGEMENT	SCIENCE Diversity in biological research
Hazard and risk assessment for surface components	[NSF-92-19] p 42 N93-13700
of a lunar base Controlled Ecological Life Support System	SCIENTIFIC VISUALIZATION Visual data interpretation; Proceedings of the Meeting,
[SAE PAPER 921285] p 302 A93-41451	San Jose, CA, Feb. 10-11, 1992
First entry operations for spacecraft [SAE PAPER 921384] p 308 A93-41542	[SPIE-1668] p 391 A93-49451 SCIENTISTS
SALIVA Salivary total protein and experimental Coriolis	Protogue to Action. Life Sciences Education and Science Literacy
sickness p 383 A93-49573	[PB93-107514] p 159 N93-21230
SALIVARY GLANDS Localization of extracellular matrix components in	An on-orbit viewpoint of life sciences research p 206 N93-22629
developing mouse salivary glands by confocal	SCORING
microscopy p 155 A93-28725 Alterations in biosynthetic accumulation of collagen	The relationship between computer scoring and safety-pilot grading of flight performance
types I and III during growth and morphogenesis of	AD-A256245 p 58 N93-14600 SCREENING
embryonic mouse salivary glands p 156 A93-28746 SALTS	Some personality and aptitude characteristics of Air
Blood and urine responses to ingesting fluids of various salt and glucose concentrations to combat orthostatic	Traffic Control Specialist trainees p 388 A93-52301 SCREWS
intolerance p 83 A93-17528	The design of mechanically compatible fasteners for
SALYUT SPACE STATION Formation of the hypokinetic syndrome in the digestive	human mandible reconstruction p 253 N93-25569 SEA FLOOR SPREADING
system under conditions of weightlessness	Deep-sea smokers - Windows to a subsurface biosphere? p 397 A93-53284
p 119 A93-25600 SAMPLING	Aqueous high-temperature and high-pressure organic
Survey of aviation medical examiners: Information and attitudes about the pre-employment and pre-appointment	geochemistry of hydrothermal vent systems p 397 A93-53285
drug testing program	SEA LEVEL
[DOT/FAA/AM-92/15] p 218 N93-24088 SANITATION	Effects of hypoxemia at sea level and high altitude on sodium excretion and hormonal levels p 8 A93-10332
Life support systems	Field trial of caffeine on physical performance at altitude:
[AAS PAPER 91-320] p 409 A93-54308 SARCOPLASMIC RETICULUM	An attempt to overcome the challenge [AD-A264260] p 337 N93-30894
Accumulation of calcium ions in the myocardial	SEA WATER
sarcoplasmic reticulum of restrained rats exposed to a pulsed electromagnetic field p 240 A93-35225	Marine microbial production of dimethylsulfide from dissolved dimethylsulfoniopropionate
SATELLITE ATMOSPHERES Titan p 114 N93-18553	[NASA-CR-193278] p 330 N93-30665 SEARCHING
SATELLITE CONTROL	Display format and highlight validity effects on search
Human-computer cooperative problem solving in satellite ground control p 188 A93-27163	performance using complex visual displays p 187 A93-27160
From pilot's associate to satellite controller's	Disruption and maintenance of skilled visual search as
associate p 32 N93-11922 SATELLITE GROUND SUPPORT	a function of degree of consistency p 389 A93-52501 SEATS
Ground operation of the mobile servicing system on	Reclined seating in advanced crewstations - Human
Space Station Freedom p 190 A93-29107 SATELLITE IMAGERY	performance considerations p 186 A93-27151 Design guide for the ergonomic aspects of helicopter
United States Army space experiment 601	crew seating
(AD-A261460) p 260 N93-26353	[ISVH-1H-209] p 65 N93-13464

SUBJECT INDEX SHIVERING

Design of a portable powered scat lift Preliminary analysis of sensory disturbances and SEROTONIN p 195 N93-22190 behavioral modifications of astronauts in space Reaction characteristics of several neuroregulating Microcomputer based software for biodynamic p 130 A93-25207 systems of cosmonauts after a 366-day-long space flight Graviperception in unicellular organisms - A comparative p 196 N93-22191 p 45 Increased release of brain behavioural study under short-term microgravity SECRETIONS serotonin reduces Experimental study of volatile metabolites of human p 151 A93-26548 vulnerability to ventricular fibrillation in the cat The character of spontaneous oculomotor activity in p 151 A93-26500 body p 11 A93-13711 weightlessness and during readaptation Tryptophan availability modulates serotonin release from Cytokine secretion by immune cells in space p 248 A93-35219 rat hypothalamic slices p 152 A93-27000 p 153 A93-28694 Dynamic analysis of human visuo-oculo-manual Effect of chronic D-fenfluramine administration on rat Separation of rat pituitary secretory granules by ontinuous flow electrophoresis p 329 A93-44933 coordination control in target tracking tasks hypothalamic serotonin levels and release continuous flow electrophoresis p 287 A93-41166 p 152 A93-27049 A modified method for investigating gastric secretion Cognitive performance and event-related brain Serotonin release varies with brain tryptophan levels p 359 A93-45692 in aviation medical examination potentials under simulated high altitudes p 201 A93-32119 SEDATIVES p 331 A93-42189 Persistent blockade of potassium-evoked serotonin The effects of Benadryl and Hismanal on mood. Multimodal interactions in sensory-motor processing release from rat frontocortical terminals after fluoxetine physiological measures, antihistamine detection, and LAD-A2557801 p 59 N93-15067 p 202 A93-32125 subjective symptoms p 385 A93-52302 Aimed arm movements under changed gravity Effects of their nutrient precursors on the synthesis and SEDIMENTS p 193 N93-21113 release of serotonin, the catecholamines, and Bacterial sulfate reduction above 100 C in deep-sea Eye-head-arm coordination and spinal reflexes in acetylcholine - Implications for behavioral disorders p 204 A93-33033 8-OH-DPAT does not interfere with habituation to hydrothermal vent sediments p 80 A93-20672 p 236 N93-24362 weightlessness Coordinated action in 3-D space p 271 A93-38451 A study of the effects of micro-gravity on seed p 40 N93-13167 IAD-A2614181 p 261 N93-26449 motion-induced emesis in cats Human capabilities and limitations in situation The role of serotonin and histamine in increasing the germination Final results of space exposed experiment developed p 319 N93-28863 resistance of the organism to certain extreme conditions p 324 A93-43034 p 329 N93-29702 SENSORY DEPRIVATION for students Vestibulo-oculomotor responses under conditions of Continued results of the seeds in space experiment Physiological analyses of the afferents controlling brain immersion hypokinesia p 251 A93-35256 neurochemical systems p 330 N93-29703 IAD-A2531851 p 14 N93-11146 SEGMENTS Psychophysical analyses of perceptual representations [AD-A255432] p 58 N93-14510 Study of SCN neurochemistry using in vivo microdialysis Development of a large space robot - A multi-segment SENSORY FEEDBACK in the conscious brain: Correlation with circadian activity [AIAA PAPER 93-1463] p 261 A93-34012 Human behavior in virtual environments rhythms Development of a large space robot - A multi-segment p 233 A93-33447 IAD-A2598031 p 217 N93-23459 Molecular approach to hypothalamic rhythms approach. II Modeling of a full vision system using combined p 335 N93-30421 [AIAA PAPER 93-1464] p 262 A93-34013 Visual/Haptic search for remote object identification [AD-A264438] SÉIZURES p 266 N93-25867 SERUMS [AD-A260977] Automatic detection of seizures with applications Atomic structure and chemistry of human serum Integration of advanced teleoperation technologies for p 254 N93-25592 albumin p 200 A93-31628 p 366 N93-32107 control of space robots SELECTION Correlation of serum alpha sub 1 antitrypsin with SENSORY PERCEPTION Mir 1992 operations and crew training cigarette smoking and pulmonary function status in Greek K.E. Tsiołkovsky on individual time perception and some p 226 N93-24352 pilots, for a ten year period p 22 N93-11318 characteristics of intuitive perception of the properties of SELF ERECTING DEVICES Amino acid sequences for the binding regions in serum time at different levels of motor activity and health Prefabricated foldable lunar base modular systems for albumin proteins p 106 N93-17444 [NASA-CASE-MFS-28402-1] p 276 N93-28952 habitats, offices, and laboratories Consequences of a basic model of external-information SELF ORGANIZING SYSTEMS Lipidemic profile of Hellenic Airforce officers p 98 A93-18414 Connectionist models and p 362 N93-32250 linguistic theory: Development of a tactile perceived attitude transducer Correlation of life-style and dietary concomitants of Investigations of stress systems in language IAD-A2537241 p 25 N93-11081 AD-A265450 p 364 N93-32064 Greek pilots with serum analytes p 369 N93-32256 The OMPAT level 1 Neurophysiological Performance SELF TESTS SERVICE LIFE Assessment Battery: NPPAB Time stress measurement devices for enhancement of Regenerable biocide delivery unit, volume 1 p 27 N93-12432 NASA-CR-185701-VOL-1] [AD-A254840] p 274 N93-27122 inboard bit performance p 144 N93-19762 SEMANTICS Institute for the Study of Human Capabilities SERVOCONTROL Graphical displays - Implications for divided attention, p 69 N93-14427 A manipulator control testbed - Implementation and [AD-A256091] focused attention, and problem solving The role of central monoaminergic systems in arousal IAAS PAPER 92-0541 p 102 A93-19984 p 392 A93-50594 and selective attention Interpretation as abduction LAD-A258500 L p 122 N93-18264 p 225 N93-24227 140-42596081 The earliest fossil evidence for sexual dimorphism in Role of orientation reference selection in motion SEMICIRCULAR CANALS primates p 152 A93-27775 sickness Response characteristics of semicircular canal in cats [NASA-CR-191912] p 124 N93-18596 under linear acceleration p 3 A93-13536 Comparing the Cattell 16PF profiles of male and female Principles for integrating voice I/O in a complex p 178 A93-27177 Vestibular afferent responses to microrotational stimuli commercial airline pilots p 146 N93-19774 p 328 A93-44930 An annotated bibliography of research involving women, Biomagnetic localization from transient quasi-static Hair cell tufts and afferent innervation of the bullfrog conducted at the US Army Research Institute of events Environmental Medicine crista ampullaris p 329 A93-44931 IDE93-0073281 p 253 N93-25186 Micromotional studies of utricular and canal afferents AD-A2654971 p 360 N93-31917 Neuropsychological components [NASA-CR-192703] p 207 N93-22800 SHAPES identification Neural processing of gravity information Up/down in (im)possible flight attitude indicators - Some IAD-A2614491 p 259 N93-26347 [NASA-CR-192766] p 209 N93-23233 effects of colour, shape and pattern p 185 A93-27128 Theory of signal detection and its application to visual SENSITIVITY Shape discrimination and the judgement of perfect target acquisition: A review of the literature Effects of refrigerating preinoculated Vitek cards on symmetry - Dissociation of shape from size LAD-A2629201 p 288 N93-28307 microbial physiology and antibiotic susceptibility p 224 A93-32788 SENSORY STIMULATION Modeling clothed figures ISAE PAPER 9212141 p 273 A93-41390 p 71 N93-15363 Spatial contrast sensitivity through aviator's night vision Short-term microgravity to isolate graviperception in [AD-A257037] p 393 A93-52300 p 111 A93-21901 Optimal design of composite hip implants using NASA cells p 174 N93-22188 technology Animal models in motion sickness research Spontaneous and evoked activity of neurons in the Sensory sensitivities and discriminations and their roles p 399 A93-55936 parietal associative cortex of cats during motion Prediction of motion sickness susceptibility p 239 A93-35211 in aviation [AD-A259742] p 224 N93-23479 p 403 A93-55940 Spectral motion produces an auditory after-effect Shape optimization of tibial prosthesis components Motion sickness susceptibility and behavior p 405 A93-55579 INASA-CR-1911231 p 405 A93-55948 p 246 N93-27085 p 145 N93-19764 Developing virtual cockpits Methods for characterizing the human head for the Studies of safety, infectivity, and immunogenicity of a SEPARATION new Temperature Sensitive (TS) 51-1 strain of S. typhi design of helmets Process for selectively recovering algae and protozoa IAD-A2638751 p 353 N93-29889 as a new live oral typhoid fever vaccine candidate [NASA-CASE-MFS-26124-1-NPO] p 276 N93-29174 p 19 N93-11306 Representations of shape in object recognition and SEPARATORS long-term visual memory Autonomic physiological data associated with simulator Zero gravity phase separator technologies - Past, LAD-A2643421 p 341 N93-30163 discomfort present and future [NASA-CR-177609] SHEAR STRESS p 222 N93-24738 [SAE PAPER 921160] SENSORIMOTOR PERFORMANCE Wall shear stress estimates in coronary artery A novel membrane device for the removal of water vapor p 170 A93-28759 Accuracy of aimed arm movements in changed gravity p 56 A93-16159 constrictions and water droplets from air Balance and gait analysis after 30 days -6 deg bed rest [SAE PAPER 921322] p 304 A93-41484 Joint HVAC transmission EMF environmental study [DE92:017863] - Influence of lower-body negative-pressure sessions SEQUENCING p 43 N93-15211 p 48 A93-16161 Development of resonance ionization spectroscopy for

genome mapping and DNA sequencing using stable

p 246 N93-26587

isotopes as DNA labels

[DE93-007815]

Electrophysiological and ultrastructural aspects of the effect of high-pressure oxygen on the sensomotor cortex

of the rat brain

p 77 A93-18300

p 75 A93-18039

Thermogenesis induced by inhibition of shivering during

cold exposure in exercise-trained rats

SHOCK (PHYSIOLOGY) SUBJECT INDEX

SHOCK (PHYSIOLOGY)		SUBJECT INDEX
SHOCK (PHYSIOLOGY)	Rapid susceptibility testing of mycobacterium avium	Dynamics of normalization of some behavioral and
A study of human brain somatosensory evoked potential	complex and mycobacterium tuberculosis isolated from	neurochemical disturbances in rats caused by the
and its application to man-machine-environment system engineering - Preliminary exploration of SEP in normal	AIDS patients	deprivation of the paradoxical sleep stage p 111 A93-23074
adult p 12 A93-13719	[NASA-CR-192382] p 172 N93-20736 Evoked brain potentials as indicators of a central nervous	Age, circadian rhythms, and sleep loss in flight crews
Seasonal effects on human physiological adaptation	impairment in a simulated saturation dive to 560 m	p 211 A93-30276
factors, thermotolerance and plasma fibronectin	[DLR-FB-92-14] p 219 N93-24093	Flight crew sleep during multiple layover polar flights
p 47 A93-16157 Systemic and pulmonary hypertension after resuscitation	The Environmental Symptoms Questionnaire (ESQ):	p 380 A93-49226 Respiratory changes and structure of sleep in young
with cell-free hemoglobin	Development and application [AD-A264127] p 335 N93-30196	high-altitude dwellers in the Andes of Peru
[AD-A258185] p 120 N93-17900 SHOCK ABSORBERS	SILICATES	p 383 A93-49569
Wheels for wheelchairs and the like	Comet Halley as an aggregate of interstellar dust and	NASA Space Human Factors Program [NASA-TM-108005] p 31 N93-10890
[NASA-CASE-MFS-28632-1] p 106 N93-17042	further evidence for the photochemical formation of organics in the interstellar medium p 108 A93-17824	Sleep inertia: Is there a worst time to wake up?
Design of a reusable kinetic energy absorber for an	SIMILARITY THEOREM	[AD-A256602] p 52 N93-14240
astronaut safety tether to be used during extravehicular activities on the Space Station	Spectral analysis of visual symbols p 30 A93-13718	C-141 aircrew sleep and fatigue during the Persian Gulf conflict p 371 N93-32265
[NASA-CR-192015] p 139 N93-17973	SIMPLIFICATION	The effects of cockpit heat on aviator sleep
SHOES	Stimulus presentation formats and measurement techniques for the quantification of target detection	parameters p 371 N93-32266
Suction-cup shoes for astronauts - A new method of foot restraint p 62 A93-17072	performance	Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267
SHOULDERS	[AD-A258933] p 133 N93-19449	SLEEP DEPRIVATION
Development of a 500 hPa shoulder joint for the	Interpretation as abduction	Research on sleep, circadian rhythms and aging
European EVA Space Suit System [SAE PAPER 921257] p 299 A93-41427	[AD-A259608] p 225 N93-24227 SIMULATION	Applications to manned spaceflight p 94 A93-20658 Sleep and circadian rhythms p 94 A93-20659
SHROUDS	Synthetic experience - A proposed taxonomy	Effects of sleep deprivation on the cognitive capacities
Bright light delivery system	p 390 A93-49398	of visuo-spatial representation and orientation
[NASA-CASE-MFS-28723-1] p 96 N93-17058 SICKNESSES	The influence of individual sensivity to stress on the	p 129 A93-21870 Effects of sleep deprivation and exercise on glucose
Simulator sickness experience in simulators equipped	behavior (attitude and performance) of avoidance of an accident p 134 N93-19705	tolerance p 281 A93-41165
with fiber optic helmet mounted display systems	Training high performance skills using above real-time	Sleep inertia: Is there a worst time to wake up?
[AIAA PAPER 92-4135] p 136 A93-24490 A study of illness related lost time in transport aircraft	training	[AD-A256602] p 52 N93-14240 The use of electrophysiological and cognitive variables
crewmembers	[NASA-CR-192616] p 225 N93-24192 SIMULATORS	in the assessment of degradation during periods of
[AD-A258193] p 132 N93-18298	Simulator sickness experience in simulators equipped	sustained wakefulness
SIGNAL ANALYSIS A toposcopic investigation of brain electrical activity	with fiber optic helmet mounted display systems	[AD-A263033] p 283 N93-27923 SMART STRUCTURES
induced by motion sickness	[AIAA PAPER 92-4135] p 136 A93-24490	Intelligent virtual interfaces for telerobotics
[AD-A259024] p 124 N93-18952	Training high performance skills using above real-time training	p 193 A93-29136
G-load effects and efficient acoustic parameters for robust speaker recognition p 146 N93-19775	[NASA-CR-192616] p 225 N93-24192	SMOKE Correlation of serum alpha sub 1 antitrypsin with
SIGNAL DETECTION	Programmable interactive system for cochlear implant	cigarette smoking and pulmonary function status in Greek
Auditory perception p 23 N93-12469	electrode stimulation [AD-A262558] p 333 N93-29421	pilots, for a ten year period p 22 N93-11318
[AD-A255061] p 23 N93-12469 Increased fire and toxic contaminant detection	Exercise/recreation facility for a lunar or Mars analog	Survey of smoking habits in the Spanish Air Force p 370 N93-32262
responsibility by use of distributed, aspirating sensors	p 352 N93-29733	SMOKE DETECTORS
p 311 N93-27722 Theory of signal detection and its application to visual	SITTING POSITION	Increased fire and toxic contaminant detection
target acquisition: A review of the literature	Passive zero-gravity leg restraint JNASA-CASE-ARC-11882-1-CUJ p 70 N93-14713	responsibility by use of distributed, aspirating sensors p 311 N93-27722
[AD-A262920] p 288 N93-28307	Portable seat lift	SNAILS
Auditory spectro-temporal pattern analysis [AD-A264691] p 361 N93-31981	[NASA-CASE-MFS-28610-1] p 106 N93-17045	CELSS nutrition system utilizing snails p 394 A93-52411
SIGNAL PROCESSING	Transmission of vibration through the human body to the head: A summary of experimental data	SOCIAL FACTORS
Wide-bandwidth high-resolution search for extraterrestrial intelligence	[ISVR-TR-218] p 361 N93-32237	Neuropsychiatric morbidity in early HIV disease: Implications for military occupational function
[NASA-CR-191618] p 110 N93-15825	SIZE (DIMENSIONS)	p 18 N93-11299
Wide-bandwidth high-resolution search for	Shape discrimination and the judgement of perfect symmetry - Dissociation of shape from size	Communicable diseases: A major burden of morbidity
extraterrestrial intelligence [NASA-CR-191807] p 110 N93-16709	p 224 A93-32788	and mortality p 18 N93-11300 The lunar community church: Contributions to lunar living
Control system and method for prosthetic devices	Assessing patterns of change in anthropometric	and to evolution of ethical and spiritual thinking
[NASA-CASE-MSC-21941-1] p 106 N93-17087	dimensions: Secular trends of US Army females, 1946-1988	p 57 N93-14020
Automated system for analyzing the activity of individual neurons p 173 N93-22163	[AD-A260869] p 265 N93-25628	Summary of presentation for research on social structure, agreement, and conflict in groups in extreme
Programmable interactive system for cochlear implant	SKIN (ANATOMY)	and isolated environments p 99 N93-16801
electrode stimulation	EFfects of positive acceleration on the microcirculation of rabbit conjunctiva, mesentery, skin, and pia mater	SOCIAL ISOLATION
[AD-A262558] p 333 N93-29421 Multiple neuron recording in the hippocampus of freely	p 4 A93-13709	Effects of 28-day isolation (ESA-ISEMSI'90) on blood pressure and blood volume regulating hormones
moving animals	Experimental study of volatile metabolites of human	p 251 A93-35495
[AD-A264807] p 330 N93-30594 SIGNS AND SYMPTOMS	body p 11 A93-13711 Skin temperature and heat flow of head-neck region	Summary of presentation for research on social
Time to detection of circulating microbubbles as a risk	under different ambient temperatures p 46 A93-16074	structure, agreement, and conflict in groups in extreme and isolated environments p 99 N93-16801
factor for symptoms of altitude decompression sickness	Skin care in the space environment	SODIUM
p 46 A93-16153 Rett syndrome - Stimulation of endogenous biogenic	p 170 A93-28756	Effects of hypoxemia at sea level and high altitude on sodium excretion and hormonal levels p 8 A93-10332
amines p 164 A93-28697	Dermal exposure assessment: Principles and applications	Effect of DL-DOPA, L-5-HTP and pentobarbital sodium
Changes of cAMP and cGMP content in plasma and	[PB92-205665] p 12 N93-10438	on brain encephalofluctuographs in rats
urine before and after parallel swing stimulation p 213 A93-30435	SKIN TEMPERATURE (BIOLOGY) Thermal convergence fails to predict heat tolerance	p 2 A93-13530 SODIUM CHLORIDES
Phenytoin as a countermeasure for motion sickness in	limits p 8 A93-10331	The effects of a 10-day period of head-down tilt on the
NASA maritime operations p 401 A93-55162	The values of the skin-temperature gradients and their	cardiovascular responses to intravenous saline loading
Motion and space sickness [ISBN 0-8493-4703-3] p 402 A93-55929	significance for thermoregulation p 9 A93-12862 Predicting increases in skin temperature using heat	p 163 A93-28686 Diuresis and natriuresis following isotonic saline infusion
Physiology of motion sickness symptoms	stress indices and relative humidity in helicopter pilots	in healthy young volunteers before, during, and after
p 403 A93-55939	p 167 A93-28729	HDT p 163 A93-28688 Comparison of membrane ATPases from extreme
Space motion sickness monitoring experiment - Spacelab 1 p 403 A93-55941	SKULL First skulls of the early Eocene primate Shoshonius	halophiles isolated from ancient salt deposits
Simulator sickness p 403 A93-55944	cooperi and the anthropoid-tarsier dichotomy	p 243 A93-36557
Early markers of HIV infection and subclinical disease progression p 17 N93-11296	p 202 A93-32670	SODIUM COMPOUNDS Melatonin and its precursors in Y79 human
The screening of inhalant allergic diseases in the	SLEEP Sleep as a restorative process under extreme	retinoblastoma cells - Effect of sodium butyrate
selection of candidates for aircraft piloting	conditions p 89 A93-18291	p 214 A93-32120
p 21 N93-11312 Phadiatop: A screening test for inhalant allergy	Determinants of poststimulus potentiation in humans during NREM sleep p 78 A93-20034	SOFTWARE ENGINEERING A software for testing human's ability to trouble-shoot
p 21 N93-11313	Research on sleep, circadian rhythms and aging -	in the condition of multitask p 29 A93-13537
Allergic and nonallergic rhinitis in Greek pilots	Applications to manned spaceflight p 94 A93-20658	Directory of design support methods
p 21 N93-11317	Sleep and circadian rhythms p 94 A93-20659	[AD-A256987] p 104 N93-16258

SUBJECT INDEX **SPACE FLIGHT STRESS** Flight above a virtual world SOURCE PROGRAMS Controlled Ecological Life Support System (CELSS) p 145 N93-19766 Regenerable biocide delivery unit, volume 2 [NASA-CR-185701-VOL-2] p 275 modeling User areas in aircraft cockpit, using methods of rapid n 137 A93-25308 p 275 N93-27360 Life support research and development for the prototype development [MBB-FE-315-S-PUB-0493] n 196 N93-22389 SOYBEANS Department of Energy Space Exploration Initiative Crop growth and associated life support for a lunar p 137 A93-25309 The ECLSS advanced automation project evolution and Future needs for space robots for SEI --- Space p 67 N93-13994 technology assessment farm p 312 N93-27723 p 182 A93-27002 SPACE ADAPTATION SYNDROME SOFTWARE TOOLS Exploration Initiative First intramuscular administration in the U.S. space Human factor considerations for the First Lunar Human performance data visualization for system design program --- of motion sickness drugs p 84 A93-17534 teams p 348 A93-42840 Outnost harmacologic considerations for Shuttle astronauts IAIAA PAPER 93-10141 p 223 A93-30928 Distributed environmental control n 32 N93-11924 p 85 A93-17537 Shielding strategies for human exploration missions Habitat automation p 33 N93-11976 New pharmacologic approaches to the prevention of ISAF PAPER 9213761 p 308 A93-41534 SOIL SCIENCE p 85 A93-17538 space/motion sickness Regenerative life support technology challenges for the p 346 A93-42128 Cardiovascular adaptation to spaceflight Spece Exploration Initiative INASA-CASE-MSC-21954-1-NPI p 114 N93-19054 p 86 A93-17550 Remote medical systems for the human exploration of SOLLS Cerebral blood flow - Comparison of ground-based and Active synthetic soil p 401 A93-54309 spaceflight data and correlation with space adaptation IAAS PAPER 91-3211 NASA-CASE-MSC-21954-1-NP | p 114 N93-19054 p 87 A93-17553 Aerospace medicine and biology: A continuing syndrome SOLAR COSMIC RAYS NASA plans and opportunities --- space flight activities bibliography with indexes (supplement 366) Equivalent dose of cosmic rays at representative points throughout the 1990s p 79 A93-20652 [NASA-SP-7011(366)] p 12 N93-10079 Preliminary analysis of sensory disturbances and of human-body models n 248 A93-35223 Assessment of programs in space biology and behavioral modifications of astronauts in space SOLAR FLARES p 130 A93-25207 p 41 N93-13327 I NASA-CR-190930 I Temporal analysis of the October 1989 proton flare using COGIMIR - A study of cognitive functions in NASA/NSF Antarctic Science Working Group computerized anatomical models p 216 A93-32785 nicrogravity p 174 A93-26569
OPTOVERT: An AUSTROMIR 91 experiment p 81 N98-16802 SOLAR PROTONS Space migrations: Anthropology and the humanization Track structure model for damage to mammalian cell Orientational effects from optokinetic stimulation p 105 N93-16862 cultures during solar proton events p 75 A93-18073 of space p 159 A93-26571 Pax permanent Martian base: Space architecture for the Temporal analysis of the October 1989 proton flare using of long-term weightlessness Effects on first human habitation on Mars, volume 5 computerized anatomical models p 216 A93-32785 p 279 A93-39725 circularvection [NASA-CR-192042] p 140 N93-18156 SOLAR RADIATION Oxygen regime in the frontal cerebral cortex of monkeys Exobiology in Solar System Exploration Phytoplankton photosynthesis in natural mixed layers p 272 A93-40773 during a two-week space flight n 112 N93-18545 INASA-SP-5121 [AD-A255010] p 39 N93-12871 Cerebral blood velocity and other cardiovascular Overview: Exobiology in solar system exploration SOLAR RADIATION SHIELDING p 112 N93-18546 responses to 2 days of head-down tilt Radiation exposure predictions for short-duration stay p 280 A93-41122 Assessment of the state of the art in life support Mars missions Habituation to feline motion sickness p 315 N93-27978 environmental control for SEI [AAS PAPER 92-107] p 277 A93-39261 p 328 A93-44900 SPACE FLIGHT SOLAR SYSTEM The psychosocial adaptation of children in space -A computer model to determine the primary contributors Dark matter in the solar system - Hydrogen cyanide p 388 A93-50338 to relative radiation dose received by astronauts polymers p 43 A93-13935 p 110 A93-17987 Adaptation to transient postural perturbations p 105 N93-16699 Planetary guarantine in the solar system - Survival rates [NASA-CR-190959] Effect of hypergravity on astronauts in space flight of some terrestrial organisms under simulated space SPACE BASES p 48 conditions by proton irradiation p 378 A93-52408 The real world and lunar base activation scenarios Cardiovascular physiology in space flight p 68 N93-14014 p 93 A93-20654 Space migrations: Anthropology and the humanization SPACE COLONIES p 105 N93-16862 Can the adult skeleton recover lost Exobiology in Solar System Exploration
[NASA-SP-512] p 11 K.E. Tsiolkovsky on the role of the human factor in the n 93 A93-20656 p 112 N93-18545 problem of space flight safety p 100 A93-18409 The mechanical control system of bone in weightless The psychosocial adaptation of children in space - A p 94 A93-20657 Overview: Exobiology in solar system exploration spaceflight and in aging p 388 A93-50338 n 112 N93-18546 speculation Cytokine secretion by immune cells in space p 33 N93-11976 The solar system: Importance of research to the Habitat automation p 153 A93-28694 biological sciences p 113 N93-18547 Thermoregulatory responses of rhesus monkeys during paceflight p 154 A93-28706 The real world and lunar base activation scenarios SOLID WASTES p 68 N93-14014 spaceflight SPACE COMMERCIALIZATION Human life support during interplanetary travel and Absence of a growth hormone effect on rat soleus p 272 A93-40548 Autonomous support for microorganism research in domicile. V - Mars expedition technology trade study for atrophy during a 4-day spaceflight solid waste management Effects of spaceflight on the proliferation of jejunal p 83 N93-17780 [SAE PAPER 921119] p 290 A93-41311 INASA-CR-1920621 Test of the Shuttle Extended Duration Orbiter (EDO) Commercial opportunities in bioseparations and INASA-CR-1913031 n 51 N93-13449 Waste Collection Subsystem (WCS) physiological testing aboard Space Station Freedom Long-duration isolation and confinement: Human factors p 100 N93-16808 [SAE PAPER 921346] p 206 N93-22649 issues and research requirements p 305 A93-41505 SPACE DEBRIS Physiological experiments within the project AustroMir Incineration for resource recovery in a closed ecological life support system p 409 A93-54826 Enhanced softgoods structures for spacesuit p 219 N93-24354 micrometeoroid/debris protective systems Alternative processes for water reclamation and solid Monitoring of cardiovascular parameters during the waste processing in a physical/chemical bioregenerative [SAE PAPER 921258] p 299 A93-41428 AustroMir space flight p 220 N93-24367 Space Shuttle crew compartment Influence of microgravity on immune system and genetic life support system debris-contamination n 220 N93-24370 information SAE PAPER 921345] Characterization of the water soluble component of p 305 A93-41504 Armstrong Laboratory space visual function tester inedible residue from candidate CELSS crops SPACE ENVIRONMENT SIMULATION p 284 N93-28739 Response of the circadian system to 6 deg head-down [NASA-TM-107557] p 139 N93-18111 SPACE FLIGHT FEEDING p 117 A93-24045 Some features characterizing the supply of astronauts Stimulus presentation formats and measurement The problem of oxygen regimen in extreme conditions with vitamins C, B1, B2, and B6 during nourishment from p 160 A93-27685 techniques for the quantification of target detection canned-food rations on long-term space flights Magnetic Resonance Imaging evaluation of lower limb p 249 A93-35231 muscles during bed rest - A microgravity simulation IAD-A2589331 p 133 N93-19449 Space Station Freedom food management p 212 A93-30280 ISAE PAPER 9212481 p 298 A93-41419 Development of a regenerable metal oxide sheet matrix Metabolic responses to simulated extravehicular Review of the space medico-engineering research in CO2 removal system activity China [SAE PAPER 921298] [SAE PAPER 921303] p 282 A93-41468 | AAS PAPER 91-623| p 302 A93-41463 SORPTION Planetary guarantine in the solar system - Survival rates A proposal to demonstrate production of salad crops of some terrestrial organisms under simulated space Use of sorption technology for treatment of humidity in the Space Station Mockup Facility with particular conditions by proton irradiation p 378 A93-52408 condensate for potable water attention to space, energy, and labor constraints [SAE PAPER 921312] p 303 A93-41474 Possible biomedical applications and limitations of a INASA-CR-1928151 p 209 N93-23169 variable-force centrifuge on the lunar surface: A research SOUND FIELDS SPACE FLIGHT STRESS p 83 N93-17458 Reaction characteristics of several neuroregulating tool and an enabling resource Perceptual effects of synthetic reverberation three-dimensional audio systems Design of a radiator shade for testing in a simulated p 257 A93-36583 systems of cosmonauts after a 366-day-long space flight p 45 A93-15167 SOUND LOCALIZATION lunar environment p 108 N93-17710 p 46 A93-15530 INASA-CR-192080 I AUDIMIR - Directional hearing at microgravity The cardiovascular system SPACE ERECTABLE STRUCTURES p 159 A93-26570 Metabolic changes observed in astronauts Headphone localization of speech SHARC: Space Habitat, Assembly and Repair Center p 84 A93-17535 p 140 N93-18153 p 394 A93-52507 INASA-CR-1920311 Drug effects on orthostatic intolerance induced by A preliminary structural analysis of space-based p 86 A93-17544 Super auditory localization for improved human-machine inflatable tubular frame structures p 313 N93-27849 interfaces Altered cell function in microgravity SPACE EXPLORATION 1 AD-A2546001 p 34 N93-12229 p 79 A93-20660 Smart space suits for space exploration SOUND PRESSURE The pituitary - Aging and spaceflown rats p 28 A93-12078 p 79 A93-20661 Measurement and evaluation of blast overpressure during F-15A crew station vulnerability assessment test Supporting human exploration in space - Biomedical Cellular immunosenescence - An overview

p 48 A93-17428

LAD-A2571521

p 104 N93-16033

research

A93-20663

p 80

SPACE HABITATS SUBJECT INDEX

Immune response during space flight	Life support and self-sufficiency in space communities	Depth cue interaction in telepresence and simulated telemanipulation p 232 A93-33446
p 94 A93-20664 Caenorhabditis elegans - A model system for space biology studies p 80 A93-20665	p 105 N93-16866 Human safety in the lunar environment	The impact of visual noise on spatial orientation p 257 A93-35440
The rhythm of heart activity and arrhythmia in long-term	p 105 N93-16867 Inflatable habitation for the lunar base	Spatial orientation in weightless environments
AUDIMIR - Directional hearing at microgravity	p 106 N93-17442 Prefabricated foldable lunar base modular systems for	p 388 A93-49563 Multistage integration model for human egomotion
p 159 A93-26570 Effects of antiorthostatic suspension and corticosterone	habitats, offices, and laboratories p 106 N93-17444 Lunar subsurface architecture enhanced by artificial	perception AIAA PAPER 93-3564 p 406 A93-52664
on macrophage and spleen cell function p 153 A93-28693	biosphere concepts p 107 N93-17448 Automation of closed environments in space for human	3-D target designation using two control devices and an aiding technique in fighter cockpits
Variable lymphocyte responses in rats after space flight p 154 A93-28704	comfort and safety [NASA-CR-192045] p 138 N93-17971	p 408 A93-53120 User evaluation of a stereoscopic display for space
Alteration in human mononuclear leucocytes following space flight p 165 A93-28705	Conceptual design of a fleet of autonomous regolith throwing devices for radiation shielding of lunar habitats	training applications p 408 A93-53123 Eye movements and visual information processing
Vestibular problems in diving and in space p 169 A93-28747	[NASA-CR-192030] p 139 N93-18018	[AD-A250198] p 24 N93-10278 Psychophysical analyses of perceptual representations
Vestibular ataxia following shuttle flights - Effects of microgravity on otolith-mediated sensorimotor control of	Conceptual design of a thermal control system for an inflatable lunar habitat module	[AD-A255432] p 58 N93-14510
posture p 169 A93-28750	[NASA-CR-192014] p 140 N93-18113 SHARC: Space Habitat, Assembly and Repair Center	Neural basis of motion perception [AD-A261452] p 260 N93-26349
Changes of cAMP and cGMP content in plasma and urine before and after parallel swing stimulation	NASA-CR-192031 p 140 N93-18153 Pax permanent Martian base: Space architecture for the	Symbology for head up and head down applications for highly agile fighter aircraft: To improve spatial awareness,
p 213 A93-30435 Influence of space-flight factors on growth of spirulina	first human habitation on Mars, volume 5 [NASA-CR-192042] p 140 N93-18156	trajectory control, and unusual attitude recovery, part 1 p 318 N93-28857
p 199 A93-30441 Cardiovascular problems during space flight	SPE water electrolyzers in support of the lunar outpost p 315 N93-27977	The cube rotation test: A computer generated process for acquisition of mental spatial manipulator capability
p 213 A93-30445 Prevention of space flight induced soft tissue	Conceptual study on manned lunar surface site p 316 N93-28029	p 344 N93-31237 SPACE PLATFORMS
calcification and disuse osteoporosis	Manned lunar surface site: Conceptual study on	An operator interface design for a telerobotic inspection system
Investigation of fluid-electrolyte metabolism and its hormonal regulation during the second joint Soviet-French	pressurized lunar surface operation rover p 316 N93-28032	[AIAA PAPER 93-1160] p 231 A93-31034
space mission p 247 A93-35207	Lunar surface experiment system p 316 N93-28034 Selenia: A habitability study for the development of a	Recovering potable water from wastewater in space platforms by lyophilization
Lipid peroxidation and the antioxidant defense system in rats after a 13-day flight on the Cosmos-1887	third generation lunar base p 352 N93-29748 SPACE LABORATORIES	[SAE PAPER 921323] p 304 A93-41485 Remote surface inspection system of large space
biosatellite p 239 A93-35210 Metabolism in cosmonauts - Results of biochemical	Microgravity flight testing of a laboratory robot AAS PAPER 91-035 p 62 A93-15583	platforms p 410 A93-55469 SPACE POWER REACTORS
blood analyses for crew members of seven primary missions on the Mir orbital station p 250 A93-35254	EMATS, a robot-based Equipment Manipulation and Transportation System for the Columbus Free Flying	Man-machine interface issues for space nuclear power systems p 60 A93-13907
Some indices of humoral immunity in Rhesus monkeys under the effect of extreme space flight factors	Laboratory p 231 A93-31522 SPACE LAW	SPACE PROCESSING Distribution of human waste samples in relation to sizing
p 241 A93-35258 Spaceflight on STS-48 and earth-based unweighting	The province and heritage of mankind reconsidered: A new beginning p 69 N93-14018	waste processing in space p 68 N93-14001 Commercial opportunities in bioseparations and
produce similar effects on skeletal muscle of young rats p 326 A93-44179	SPACE LOGISTICS Habitat automation p 33 N93-11976	physiological testing aboard Space Station Freedom p 206 N93-22649
Effects of spaceflight on the spermatogonial population of rat seminiferous epithelium p 329 A93-44935	SPACE MISSIONS NASA plans and opportunities space flight activities	Materials dispersion and biodynamics project research p 207 N93-22651
Effect of spaceflight on human protein metabolism p 360 A93-47097	throughout the 1990s p 79 A93-20652 Engineering verification of the biomass production	SPACE PSYCHOLOGY Human factor considerations for the First Lunar
Effects of spaceflight on the musculoskeletal system - NIH and NASA future directions p 383 A93-49568	chamber p 67 N93-13996 Nutrition p 81 N93-16805	Outpost [AIAA PAPER 93-1014] p 223 A93-30928
Space and cognition - The measurement of behavioral functions during a 6-day space mission	Exobiology in Solar System Exploration [NASA-SP-512] p 112 N93-18545	Results of a structured psychiatric interview to evaluate NASA astronaut candidates p 223 A93-32780
p 405 A93-55164 Endocrinology of space/motion sickness	Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399	The psychological challenge of space p 339 A93-42658
p 403 A93-55935 Space motion sickness monitoring experiment	Selection of astronauts for European space missions p 225 N93-24345	The psychosocial adaptation of children in space - A speculation p 388 A93-50338
Spacelab 1 p 403 A93-55941 Adaptation to the simulated stimulus rearrangement of	Space life support technology applications to terrestrial environmental problems p 265 N93-25617	SPACE RATIONS Some features characterizing the supply of astronauts
weightlessness p 403 A93-55942 Statistical prediction of space motion sickness	Analysis of the lettuce data from the variable pressure growth chamber at NASA Johnson Space Center: A	with vitamins C, B1, B2, and B6 during nourishment from canned-food rations on long-term space flights
p 403 A93-55943 DoD space radiation concerns	three-stage nested design model p 245 N93-26069 Pharmacokinetics and Pharmacodynamics in Space	p 249 A93-35231 SPACE SHUTTLE MISSION 31-D
[AD-A253135] p 13 N93-10613 NASA Space Human Factors Program	[NASA-CP-10048] p 333 N93-29502 SPACE ORIENTATION	Electronystagmography and audio potentials in space flight p 9 A93-11675
[NASA-TM-108005] p 31 N93-10890 Space flight and immune system p 14 N93-11284	Computerized teaching of pilots to spatial orientation flight tasks p 404 A93-52694	SPACE SHUTTLE MISSIONS Emergency medical operations at Kennedy Space
Cognitive and affective components of mental workload: Understanding the effects of each on human decision	SPACE PERCEPTION Anisotropy in an ambiguous kinetic depth effect	Center in support of space shuttle p 166 A93-28712 Operational space human factors - Methodology for a
making behavior p 99 N93-16783 SPACE HABITATS	p 55 A93-14097	DSO Detailed Supplementary Objective for manned Shuttle Orbiter missions
Human factor considerations for the First Lunar Outpost	Human vestibular function and weightlessness p 84 A93-17531	[SAE PAPER 921156] p 293 A93-41339
[AIAA PAPER 93-1014] p 223 A93-30928	Using the stereokinetic effect to convey depth - Computationally efficient depth-from-motion displays	STS-40 Spacelab Life Sciences 1 (SLS-1): The first dedicated spacelab life sciences mission
Recycling and source reduction for long duration space habitation	p 102 A93-19987 Spatial judgments with monoscopic and stereoscopic	[NASA-TM-108034] p 80 N93-15823 Immunology presentation at the 1990 NASA/NSF
[SAE PAPER 921121] p 290 A93-41313 Microbiological concerns and methodological	presentation of perspective displays p 102 A93-19988 Effects of sleep deprivation on the cognitive capacities	Antarctica Biomedical Science Working Group p 81 N93-16806
approaches related to bacterial water quality in spaceflight	of visuo-spatial representation and orientation p 129 A93-21870	Effect of microgravity on several visual functions during STS Shuttle missions: Visual Function Tester-Model 1
[SAE PAPER 921232] p 297 A93-41406 Human habitat design for the Space Exploration	Prospective assessment of stereoscopic visual status and USAF pilot training attrition p 116 A93-24039	(VFT-1) p 284 N93-28740 Effect of microgravity on visual contrast threshold during
Initiative p 344 A93-41978 Lunar habitats - Places for people	AUDIMIR - Directional hearing at microgravity p 159 A93-26570	STS Shuttle missions: Visual Function Tester-Model 2 (VFT-2) p 284 N93-28741
p 344 A93-41991 Lunar base requirements for human habitability	Spatial orientation and dynamics in virtual reality systems - Lessons from flight simulation p 178 A93-27185	SPACE SHUTTLE ORBITERS Space robotics and its man-machine interface
p 345 A93-41995	Exocentric judgements in real environments and stereoscopic displays p 189 A93-27190	p 27 A93-11204
Space habitat contaminant growth models. II p 345 A93-42094	Influence of animation on dynamical judgments p 180 A93-28692	The Servicing Aid Tool teleoperated manipulation system for space shuttle orbiters p 192 A93-29116
An operational evaluation process for long-duration mission habitats in space p 345 A93-42114	Predicting individual differences in complex skill acquisition - Dynamics of ability determinants	Test of the Shuttle Extended Duration Orbiter (EDO) Waste Collection Subsystem (WCS)
Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125	p 181 A93-28731 Factors that affect depth perception in stereoscopic	Space Shuttle Orbiter oxygen partial pressure sensing
Space habitat environmental health - A systems issue	displays p 230 A93-30455	and control system improvements

SUBJECT INDEX		SPACE STATIONS
Shuttle Orbiter Environmental Control and Life Support	A systems approach to water recovery testing for space	Space human factors discipline science plan
System - Flight experience	life support - Initial biomedical results from the ECLSS	[NASA-TM-108023] p 194 N93-21370
ISAE PAPER 921348 p 305 A93-41507	Water Recovery Test and plans for testbed utilization	Space Station ECLSS integration analysis
Ventilation loss in the NASA Space Shuttle crew protective garments: Potential for heat stress	ISAE PAPER 921210 p 295 A93-41386 Microbiology operations and facilities aboard	[NASA-CR-192470] p 195 N93-22002
[AD-A258552] p 148 N93-19955	restructured Space Station Freedom	Life sciences utilization of Space Station Freedom p 205 N93-22622
SPACE SHUTTLE PAYLOADS	[SAE PAPER 921213] p 296 A93-41389	Life sciences recruitment objectives
Flight Telerobotic Servicer legacy	Pressure, composition, and temperature control of cabin	p 205 N93-22623
Alaa Paper 93-1157 p 231 A93-31032	atmosphere on Space Station Freedom JSAE PAPER 921216J p 296 A93-41392	Biomedical Monitoring and Countermeasures Facility
SPACE SHUTTLES Active vibration damping of the Space Shuttle remote	Dew point analysis for Space Station Freedom	p 205 N93-22624
manipulator system p 231 A93-31993	SAE PAPER 921227 p 296 A93-41401	Gravitational Biology Facility on Space Station: Meeting the needs of space biology p 206 N93-22625
A comparison of two Shuttle launch and entry suits -	Comparative test data assessment and simplified math modelling for Sabatier CO2 reduction subsystem	Closed Ecological Life Support Systems (CELSS) Test
Reach envelope, isokinetic strength, and treadmill tests	SAE PAPER 921228 p 296 A93-41402	Facility p 233 N93-22628
ISAE PAPER 921154 p 293 A93-41337	Simplified analysis of water distribution for Space Station	Crew health p 217 N93-22630
Design of a Shuttle air and water prefilter for reduced gravity operation	Freedom	Zero-G life support for Space Station Freedom
[SAE PAPER 921161] p 294 A93-41343	[SAE PAPER 921230] p 296 A93-41404	p 233 N93-22640
NASA's manned space flight program	Evaluation of the carbon dioxide removal assembly requirements for the Space Station Freedom in the Manned	Commercial opportunities in bioseparations and physiological testing aboard Space Station Freedom
[AAS PAPER 91-626] p 402 A93-55805	Tended Capability through Permanently Manned Capability	p 206 N93-22649
Design of a resistive exercise device for use on the	configurations	Materials dispersion and biodynamics project research
Space Shuttle [NASA-CR-192079] p 108 N93-17805	[SAE PAPER 921231] p 297 A93-41405	p 207 N93-22651
[NASA-CR-192079] p 108 N93-17805 Design of a vibration isolation system for a cycle	The effects of a reduced pressure scenario on the Columbus APM environmental control system	A proposal to demonstrate production of salad crops in the Salad Station Markup Facility with particular
ergometer to be used onboard the Space Shuttle	[SAE PAPER 921247] p 298 A93-41418	in the Space Station Mockup Facility with particular attention to space, energy, and labor constraints
[NASA-CR-192021] p 138 N93-17970	Space Station Freedom food management	[NASA-CR-192815] p 209 N93-23169
An on-orbit viewpoint of life sciences research	[SAE PAPER 921248] p 298 A93-41419	Space biology research development
p 206 N93-22629 SPACE STATION FREEDOM	Crew Health Care Systems installations for Space Station Freedom	[NASA-CR-192830] p 244 N93-25242
Space telerobotic research and applications at Space	SAE PAPER 921249 p 298 A93-41420	Advanced life support study. Modification 10: ECLSS logistical support analysis for Space Station Freedom
Systems/Loral	Continuous monitoring of effluent iodine levels of Space	[NASA-CR-192481] p 266 N93-25888
[AAS PAPER 91-046] p 62 A93-15588	Station water using solid state technology	Regenerable biocide delivery unit, volume 1
Operational medicine on the lunar base p 48 A93-17430	SAE PAPER 921265 p 299 A93-41435 Measurement of free and dissolved gas content of water	[NASA-CR-185701-VOL-1] p 274 N93-27122 Environmental control and life support system
Space medicine - Answering the challenge	samples on Space Station Freedom	evolution p 311 N93-27719
p 87 A93-17552	[SAE PAPER 921267] p 300 A93-41437	Technologies for ECLSS evolution
The Space Station Remote Manipulator System	Evaluation of capillary electrophoresis for in-flight ionic	p 311 N93-27720
p 138 A93-25487 Task-analytic evaluations of Space Station Freedom	contaminant monitoring of SSF potable water [SAE PAPER 921268] p 300 A93-41438	Alternative processes for water reclamation and solid waste processing in a physical/chemical bioregenerative
workstations p 187 A93-27157	The analytical control program for the NASA Space	life support system p 311 N93-27721
Selecting Space Station Freedom hardware	Station Freedom Environmental Control and Life Support	The ECLSS advanced automation project evolution and
p 188 A93-27184	System (ECLSS) Water Recovery Test	technology assessment p 312 N93-27723
Networked simulation for team training of Space Station astronauts, ground controllers, and scientists - A training	[SAE PAPER 921269] p 300 A93-41439 The application of filtration technology within the Water	Marshall Space Flight Center ECLSS technology activities p 312 N93-27724
and development environment p 179 A93-27188	Processor on board Space Station Freedom	JSC ECLSS R/T program overview
Ground operation of the mobile servicing system on	[SAE PAPER 921270] p 300 A93-41440	p 312 N93-27725
Space Station Freedom p 190 A93-29107	Use of sorption technology for treatment of humidity condensate for potable water	Extravehicular activity system p 312 N93-27787
Knowledge-based task planning for the Special Purpose Dextrous Manipulator p 191 A93-29110	JSAE PAPER 921312] p 303 A93-41474	Man-systems distributed system for Space Station Freedom p 312 N93-27788
Multicultural factors in the space environment - Results	Determination of organic carbon and ionic accountability	Evolution of Space Station EMU PLSS technology
of an international shuttle crew debrief	of various waste and product waters derived from ECLSS	recommendations p 312 N93-27790
p 222 A93-30277 Limitations to the study of man in space in the U.S.	water recovery tests and Spacelab humidity condensate SAE PAPER 921313 p 303 A93-41475	Simplified Aid For Crew Rescue (SAFR) p 313 N93-27793
space program p 213 A93-30285	Performance evaluation of candidate space suit	Evolving technologies for Space Station Freedom
Robotics evaluation and characterization (REACH) of	elements for the next generation orbital EMU	computer-based workstations p 313 N93-27794
the SSRMS concept and technical issues	[SAE PAPER 921344] p 305 A93-41503 Space Station Condensing Heat Exchanger biofilm	Environmental control and life support systems
[AIAA PAPER 93-1156] p 230 A93-31031 Ground-based control of Space Station Freedom-based	formation and control evaluation	p 314 N93-27858 Extravehicular activity technology discipline
robots p 263 A93-35570	[SAE PAPER 921383] p 308 A93-41541	p 314 N93-27859
Space Station Water Processor - Current flight design	Defining contamination control requirements for	Manned systems technology discipline
[SAE PAPER 921112] p 289 A93-41306	non-human research on Space Station Freedom [SAE PAPER 921386] p 308 A93-41544	p 314 N93-27860
Space Station Freedom Environmental Health Care Program	Dark cycle monitoring of biological specimens on Space	Automation of closed environments in space for human comfort and safety p 352 N93-29734
[SAE PAPER 921138] p 292 A93-41325	Station Freedom	Hyperbaric treatment p 360 N93-31454
Glovebox design for Space Station Freedom Crew	[SAE PAPER 921393] p 274 A93-41551	Health maintenance facility system effectiveness
Health Care System [SAE PAPER 921139] p 292 A93-41326	The role of Environmental Health System air quality monitors in Space Station Contingency Operations	testing [NASA-TM-104737] p 372 N93-32328
Program development for exercise countermeasures	[SAE PAPER 921414] p 310 A93-41565	Microbiological and corrosion analysis of three urine
SAE PAPER 921140 p 292 A93-41327	EVA operational guidelines and considerations for use	pretreatment regimes with titanium 6A1-4V
Hyperbaric treatment operations aboard Space Station	during the Space Station Freedom design review process p 345 A93-42119	[NASA-CR-192575] p 372 N93-32356
Freedom {SAE PAPER 921142} p 292 A93-41328	process p 345 A93-42119 Space Station and lunar/Mars life support research	SPACE STATION PAYLOADS Teleprogramming a cooperative space robotic workcell
The development of an atmosphere composition monitor	p 346 A93-42122	for Space Station p 190 A93-29109
for the Environmental Control and Life Support System	Space Station Freedom payload operations in the 21st	Centralized, decentralized, and independent control of
ISAE PAPER 921149 p 292 A93-41333	century p 350 A93-45436	a flexible manipulator on a flexible base
Oxygen generation by static feedwater electrolysis for Space Station Freedom	An on-line water quality monitor for Space Station Freedom p 364 A93-46801	p 231 A93-31517 The Biological Flight Research Facility
[SAE PAPER 921151] p 293 A93-41335	Ground-remote control for space station telerobotics	p 239 A93-34581
The Centrifuge Facility Life Sciences Glovebox	with time delay	Defining contamination control requirements for
configuration study	[AAS PAPER 92-052] p 392 A93-50592	non-human research on Space Station Freedom
SAE PAPER 921158 p 293 A93-41341 Two phase fluid management for hydroponics	NASA's manned space flight program	[SAE PAPER 921386] p 308 A93-41544 Space Station Freedom payload operations in the 21st
SAE PAPER 921163 p 294 A93-41345	[AAS PAPER 91-626] p 402 A93-55805 Intelligent fault management for the Space Station active	century p 350 A93-45436
Initial accomplishments of the Environmental Control	thermal control system p 32 N93-11930	Autonomous support for microorganism research in
and Life Support System (ECLSS) atmosphere	Microbiological methods for the water recovery systems	space [NASA-CR-192062] p 83 N93-17780
revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF)	test, revision 1.1	[NASA-CR-192062] p 83 N93-17780 Columbus payload requirements in human physiology
[SAE PAPER 921186] p 294 A93-41365	[NASA-CR-184390] p 64 N93-12966	p 220 N93-24386
Development of the carbon dioxide removal system	Autonomous support for microorganism research in	Environmental control and life support system
blower used on Space Station Freedom SAE PAPER 921188 p 294 A93-41367	space [NASA-CR-192062] p 83 N93-17780	evolution p 311 N93-27719 SPACE STATIONS
Labels and visual cues to reproduce an earthlike	Radiological assessment for Space Station Freedom	Contribution of psychiatry to life in space
environment in space - Going ahead in designing Columbus	[NASA-TM-104758] p 128 N93-20303	p 56 A93-15529
APM interior architecture	Environmental health discipline science plan [NASA-TM-108042] p 173 N93-21369	NASA plans and opportunities space flight activities throughout the 1990s p 79 A93-20652
[SAE PAPER 921193] p 295 A93-41371	[NASA-TM-108042] p 173 N93-21369	anoughout the 19905 p 19 A95-20002

SPACE SUITS SUBJECT INDEX

shared control and automated operations

Person-like intelligent systems architectures for robotic

Life sciences utilization of Space Station Freedom

p 205 N93-22622

p 297 A93-41407

The psychological effects of isolation on a space station

A simulation study

|SAE PAPER 921191| p 287 A93-41369 p 191 A93-29113 Physiological experiments within the project AustroMir Biodeterioration of materials in water reclamation p 219 N93-24354 Telerobotic system performance measurement systems Eye-head-arm coordination and spinal reflexes in Motivation and methods p 191 A93-29114 [SAE PAPER 921311] p 236 N93-24362 p 303 A93-41473 Recent developments at the Goddard Engineering Test reightlessness Telerobot control mode performance assessment Development and implementation of the MotoMir Bed --- for force reflecting teleoperation system [AAS PAPER 92-053] p 392 A93-50593 experiment on the Mir Space Station p 192 A93-29115 A health care system for the Space Station p 220 N93-24363 The Servicing Aid Tool --- teleoperated manipulation I NASA-TM-108093 I Optovert: An AustroMir-1991 experiment. Orientational p 65 N93-13571 system for space shuttle orbiters p 192 A93-29116 Conceptual design of a lunar base thermal control effects from optokinetic stimulation p 226 N93-24366 Safety issues of manipulator systems under computer p 68 N93-14003 system Influence of microgravity on immune system and genetic p 192 A93-29121 control Applications of living systems theory to life in space p 220 N93-24370 A distributed telerobotics system for space operations information p 105 N93-16865 p 192 A93-29132 The USO-concept applied to a biological model p 210 N93-24379 An on-orbit viewpoint of life sciences research experiment Testbed for remote telepresence research p 206 N93-22629 p 193 A93-29135 Training concept for crew, end user, and ground centre Architecture of autonomous systems personnel in the Columbus utilisation programme An experiment in vision based autonomous grasping p 226 N93-24382 INASA-CR-1929741 p 266 N93-26047 within a reduced gravity environment The role of pyridoxine as a countermeasure for in-flight CERAS-Aquarack: An artificial aquatic animal plant p 193 A93-29137 loss of lean body mass ecosystem as a tool for basic research in the Columbus p 255 N93-26068 Robot free-flyers in space extravehicular activity Environmental control and life support system p 193 A93-29141 Space Station p 210 N93-24401 p 311 N93-27718 Japanese treefrog experiment onboard the Space Flight Telerobotic Servicer legacy Increased fire and toxic contaminant detection p 210 N93-24402 [AIAA PAPER 93-1157] p 231 A93-31032 Station Mir responsibility by use of distributed, aspirating sensors p 210 N93-24403 Centralized, decentralized, and independent control of Gravity and root morphogenesis p 311 N93-27722 Development of Arabidopsis thaliana grown under icrogravity conditions p 211 N93-24404 a flexible manipulator on a flexible base SPE water electrolyzers in support of the lunar p 231 A93-31517 microgravity conditions outpost p 315 N93-27977 MAC to VAX connectivity: Heartrate spectral analysis EMATS, a robot-based Equipment Manipulation and SPACE SUITS p 254 N93-25594 Transportation System for the Columbus Free Flying Smart space suits for space exploration p 231 A93-31522 United States Army space experiment 601 p 28 A93-12078 On the control of a class of flexible manipulators using p 260 N93-26353 IAD-A2614601 Experimental research of the temperature and humidity feedback linearization approach p 231 A93-31533 Lunar surface experiment system p 316 N93-28034 control system for manned spacecraft cabin Telerobot control mode performance assessment SPACECRAFT CABIN ATMOSPHERES p 10 A93-13529 p 392 A93-50593 [AAS PAPER 92-053] The development of an atmosphere composition monitor For space suits - The multifunction pressure Theoretical and experimental studies for continuous path the Environmental Control and Life Support System reducer-regulator of Intertechnique p 61 A93-15057 control of flexible manipulator mounted on a free-flying ISAE PAPER 9211491 p 292 A93-41333 Skin temperature and heat flow of head-neck region space robot Pressure, composition, and temperature control of cabin under different ambient temperatures p 46 A93-16074 I AIAA PAPER 93-3863 I p 392 A93-51449 atmosphere on Space Station Freedom Ultrasonic location of gas bubbles in the vascular bed Optimal manipulator trajectories for space robots p 296 A93-41392 |SAE PAPER 921216| of a person working in a space suit p 262 A93-35239 1AAS PAPER 91-6691 p 410 A93-55838 Evaluation of the carbon dioxide removal assembly A comparison of two Shuttle launch and entry suits -Research of a free-flying telerobot. IV - Development Reach envelope, isokinetic strength, and treadmill tests requirements for the Space Station Freedom in the Manned of dual-arm manipulation system p 411 A93-56254 Tended Capability through Permanently Manned Capability p 293 A93-41337 **ISAF PAPER 9211541** Research of a free-flying telerobot. V - Handling a target Development of the Hermes EVA Space Suit Glove p 411 A93-56255 with multi-arms ISAE PAPER 9212311 p 297 A93-41405 [SAE PAPER 921256] p 299 A93-41426 Telemanipulation experiment using predictive display Development of a 500 hPa shoulder joint for the breadboard p 411 A93-56256 Operation of European EVA Space Suit System liquid-sorbent/membrane-contactor system for removing Skill compensation and dynamic coupling p 299 A93-41427 [SAE PAPER 921257] p 411 A93-56260 carbon dioxide and water vapor from air macro/smart effector system p 304 A93-41483 Enhanced softgoods structures for SPACE TRANSPORTATION SYSTEM ISAE PAPER 9213211 spacesuit micrometeoroid/debris protective systems Shuttle p 395 A93-52641 Space compartment Machine vision in space p 299 A93-41428 [SAE PAPER 921258] SPACE TRANSPORTATION SYSTEM FLIGHTS tebris-contamination Metabolic responses to simulated extravehicular Utilization of the graded universal testing system to ISAF PAPER 9213451 n 305 A93-41504 increase the efficiency for assessing aerobic and anaerobic Space Shuttle Orbiter oxygen partial pressure sensing p 282 A93-41468 **ISAE PAPER 9213031** p 246 N93-26077 and control system improvements Performance evaluation of candidate space suit SPACEBORNE EXPERIMENTS [SAE PAPER 921347] p 305 A93-41506 elements for the next generation orbital EMU in microgravity Hematological changes space Shuttle Orbiter Environmental Control and Life Support (SAE PAPER 921344) p 46 A93-15528 p 305 A93-41503 System - Flight experience Changes in total body water during spaceflight Mitigation of dust contamination during EVA operations [SAE PAPER 921348] p 305 A93-41507 p 345 A93-42107 p 86 A93-17548 on the moon and Mars Air Handling and Atmosphere Conditioning systems for Engineering and technical support of experiments on Lunar base pressure, O2 fraction, and ExtraHabitat manned spacecraft - A design and performance data board the Cosmos-2044 biosatellite p 77 A93-18419 p 346 A93-42125 Activity suit design survey Study design for microgravity human physiology ISAE PAPER 9213501 p 306 A93-41509 Suited for spacewalking: A teacher's quide with p 118 A93-25208 experiments NASA Specialized Center for Research and Training Dynamics of the controlled environment conditions in INASA-EP-2791 p 65 N93-13692 (NSCORT) in space environmental health 'SVÉT' greenhouse in flight p 152 A93-27460 p 307 A93-41517 ISAE PAPER 9213581 A comparison of hand grasp breakaway strengths and Influence of space-flight factors on growth of spirulina bare-handed grip strengths of the astronauts, SML 3 test The General Purpose Work Station, a spacious p 199 A93-30441 subjects, and the subjects from the general population microgravity workbench The Biological Flight Research Facility INASA-TP-32861 p 96 N93-16619 ISAE PAPER 9213941 p 309 A93-41552 p 239 A93-34581 Physiological responses to wearing the space shuttle Setting Spacecraft Maximum Allowable Concentrations Responses of Bacillus subtilis spores to space launch and entry suit and the prototype advanced crew environment - Results from experiments in space for 1 hour or 24 hour contingency exposures to airborne escape suit compared to the unsuited condition p 268 A93-36556 p 149 N93-20319 INASA-TP-32971 ISAF PAPER 9214101 p.310 A93-41564 Pilot investigation - Nominal crew induced forces in SPACE TOOLS The role of Environmental Health System air quality Microgravity flight testing of a laboratory robot [SAE PAPER 921155] p 293 A93-41338 monitors in Space Station Contingency Operations [AAS PAPER 91-035] p 62 A93-15583 p 310 A93-41565 JSAE PAPER 9214141 Defining contamination control requirements for Space telerobotic research and applications at Space non-human research on Space Station Freedom p 365 N93-31456 Atmospheric control systems [SAE PAPER 921386] p 308 A93-41544 Systems/Loral SPACECRAFT CABINS Design and evaluation of a payload to support plant [AAS PAPER 91-046] p 62 A93-15588 Experimental research of the temperature and humidity growth onboard COMET 1 Evaluation of inertial devices for the control of large, control system for manned spacecraft cabin [SAE PAPER 921389] p 308 A93-41547 p 10 A93-13529 flexible, space-based telerobotic arms A matrix-based porous tube water and nutrient delivery p 101 A93-18710 Controlled ecological life-support system - Use of plants system Research and development of sensing and manipulation for human life-support in space p 190 A93-28715 I SAE PAPER 9213901 techniques for space robotics on a testbed Microflora of cabins of manned space objects and the STS-40 Spacelab Life Sciences 1 (SLS-1): The first p 136 A93-24873 [AIAA PAPER 93-0794] problem of biological damage to the structural materials dedicated spacelab life sciences mission p 262 A93-35237 Cooperative intelligent robotics in space III; Proceedings used in them p 80 N93-15823 [NASA-TM-108034] of the Meeting, Boston, MA, Nov. 16-18, 1992 Human factors evaluation of the HL-20 full-scale Autonomous support for microorganism research in p 190 A93-29101 [SPIE-1829] model p 409 A93-53746 Flight Telerobotic Servicer legacy p 190 A93-29106 p 83 N93-17780 SPACECRAFT CONSTRUCTION MATERIALS | NASA-CR-192062 | Teleprogramming a cooperative space robotic workcell Microflora of cabins of manned space objects and the Investigation of wheat coleoptile response to phototropic p 190 A93-29109 for Space Station problem of biological damage to the structural materials stimulations p 114 N93-18608 Dimensions of complexity in learning from interactive [NASA-CR-192157] used in them p 262 A93-35237 p 158 N93-21074 SPACECRAFT CONTAMINATION instruction --- for robotic systems deployed in space Space life sciences overview p 191 A93-29111 The development of an automated cell culture system Instrumentation for microbial monitoring of decontamination or biocide system effectiveness

for use in space life science research

n 158 N93-21085

ISAE PAPER 9212331

robotic assistants

An overview of the dynamic predictive architecture for

p 191 A93-29112

SPEECH

SUBJECT INDEX The development and testing of a volatile organics Environmental control of the Mini Pressurized Logistic Training concept for crew, end user, and ground centre concentrator for use in monitoring Space Station water Module personnel in the Columbus utilisation programme |SAE PAPER 921281| p 226 N93-24382 p 302 A93-41449 **ISAE PAPER 9212661** p 300 A93-41436 SPACECRAFT EQUIPMENT JPRS report: Science and technology. Central Eurasia: Shuttle Zero-gravity underwater simulations for the Columbus Space crew Life sciences programme - Outcome of the first campaigns p 253 N93-25407 JPRS-ULS-92-0221 debris-contamination **ISAE PAPER 9213451** p 305 A93-41504 p 62 A93-17075 The application of integrated knowledge-based systems Selecting Space Station Freedom hardware NASA Specialized Center for Research and Training for the Biomedical Risk Assessment Intelligent Network (NSCORT) in space environmental health p 188 A93-27184 (BRAIN) p 258 N93-25595 ISAE PAPER 9213581 p 307 A93-41517 Lunar surface experiment system p 316 N93-28034 Utilization of the graded universal testing system to Contaminant distribution and accumulation in water SPACECRAFT INSTRUMENTS increase the efficiency for assessing aerobic and anaerobic Design of a vibration isolation system for a cycle p 246 N93-26077 recycle systems capacity ergometer to be used onboard the Space Shuttle ISAE PAPER 9213601 p 307 A93-41519 Automation and robotics human performance p 138 N93-17970 ρ 267 N93-26153 Space Station Condensing Heat Exchanger biofilm INASA-CR-192021 I NASA-CR-193049| Lunar surface experiment system p 316 N93-28034 formation and control evaluation SPACELAB SPACECRAFT MAINTENANCE [SAE PAPER 921383] p 308 A93-41541 Crew performance in Spacelab p 176 A93-27169 First entry operations for spacecraft HERA - A reliable and safe space robot Microbiological analysis of debris from STS-42 IML-1 [SAE PAPER 921384] SAE PAPER 921384] p 308 A93-41542 Defining contamination control requirements for p 263 A93-35571 by direct plating of rinse waters EVA operational guidelines and considerations for use [NASA-TM-108375] p 6 N93-12174 during the Space Station Freedom design review process p 345 A93-42119 non-human research on Space Station Freedom STS-40 Spacelab Life Sciences 1 (SLS-1): The first [SAE PAPER 921386] p 308 A93-41544 dedicated spacelab life sciences mission Setting Spacecraft Maximum Allowable Concentrations Integrated tools for teleoperated satellite repair [NASA-TM-108034] p 80 N93-15823 p 409 A93-54845 for 1 hour or 24 hour contingency exposures to airborne SPACELAB PAYLOADS A vision system planner for increasing the autonomy Cultivation of Hamster Kidney cells in a Dynamic Cell chemicals [SAE PAPER 921410] of the Extravehicular Activity Helper/Retriever p 310 A93-41564 Culture System in space (Spacelab IML-1 mission) p 365 N93-31844 The role of Environmental Health System air quality INASA-CR-1933011 p 200 A93-32071 monitors in Space Station Contingency Operations SPACECRAFT MODULES The General Purpose Work Station, a spacious [SAE PAPER 921414] Labels and visual cues to reproduce an earthlike microgravity workbench [SAE PAPER 921394] p 310 A93-41565 environment in space - Going ahead in designing Columbus SPACECRAFT CONTROL p 309 A93-41552 Manipulator system for module redocking on the Mir rbital Complex p 263 A93-35534 APM interior architecture Development of Arabidopsis thaliana grown under incrogravity conditions p 211 N93-24404 p 295 A93-41371 [SAE PAPER 921193] Orbital Complex microgravity conditions Manned Space-Laboratories Control Centre (MSCC) The effects of a reduced pressure scenario on the SPACING Columbus APM environmental control system Perceptual dimensions of visual scenes relevant for training p 339 A93-43330 p 298 A93-41418 A space manipulator with inertially fixed base? [SAE PAPER 921247] simulating low-altitude flight Environmental control of the Mini Pressurized Logistic [AIAA PAPER 93-3866] p 393 A93-51452 [AD-A254645] p 57 N93-12662 Design of a vibration isolation system for a cycle Gloved operator performance study p 302 A93-41449 ergometer to be used onboard the Space Shuttle [NASA-CR-192021] p 138 N9: [SAE PAPER 921281] p 104 N93-16048 Human habitat design for the Space Exploration p 138 N93-17970 SPATIAL DISTRIBUTION p 344 A93-41978 SPACECRAFT DESIGN Development of a tactile perceived attitude transducer An approach to the functional optimization of the CELSS Evolving technologies for Space Station Freedom computer-based workstations p 313 N93-27794 p 25 N93-11081 [AD-A253724] Effects of spatial luminance nonuniformities on visual-task performance and subjective uniformity Test Facility [SAE PAPER 921199] SPACECRAFT MOTION p 295 A93-41375 System integration and verification approach for the An assessment of the deflecting effect on human p 58 N93-14416 [AD-A255989] movement due to the Coriolis inertial forces in a space Parametric study of diffusion-enhancement networks for environmental control system of the Columbus Attached p 170 A93-28758 Pressurised Module spatiotemporal grouping in real-time artificial vision SPACECRAFT POWER SUPPLIES p 58 N93-14580 [SAE PAPER 921261] p 299 A93-41431 [AD-A256059] Utility of a ghost horizon and climb/dive ladder line tapering on a head-up display Evolution of Space Station EMU PLSS technology Human habitat design for the Space Exploration p 312 N93-27790 p 344 A93-41978 Initiative recommendations SPACECRAFT RECOVERY EVA operational guidelines and considerations for use during the Space Station Freedom design review I AD. A 264401 I p 353 N93-30167 TALON and CRADLE: Systems for the rescue of SPATIAL FILTERING p 345 A93-42119 tumbling spacecraft and astronauts p 196 N93-22268 SPACECRAFT SHIELDING Adaptive filters for monitoring localized brain activity from Design of a vibration isolation system for a cycle surface potential time series Shielding strategies for human exploration missions [SAE PAPER 921376] p 308 A93-41534 ergometer to be used onboard the Space Shuttle I DE93-0037951 p 217 N93-22774 p 308 A93-41534 [NASA-CR-192021] p 138 N93-17970 SPATIAL RESOLUTION Depth-dose equivalent relationship for cosmic rays at SHARC: Space Habitat, Assembly and Repair Center NASA-CR-192031) p 140 N93-18153 Spatio-temporal masking: Hyperacuity and local p 391 A93-49564 [NASA-CR-192031] arious solar minima adaptation Advanced life support study. Modification 10: ECLSS logistical support analysis for Space Station Freedom [NASA-CR-192481] p 266 N93-25888 SPACECRAFT TRAJECTORIES p 121 N93-18006 LAD-A2579341 Operator-assisted planning and execution of proximity SPECIES DIFFUSION operations subject to operational constraints Revision of the Wind River faunas, early Eocene of Manned lunar surface site: Conceptual study on p 194 N93-21436 central Wyoming. X - Bunophorus (Mammalia, orus (Mammalia, p 203 A93-33026 **SPACECREWS** pressurized lunar surface operation rover Artiodactyla) Glovebox design for Space Station Freedom Crew Health Care System p 316 N93-28032 SPECIFICATIONS SPACECRAFT DOCKING Microbiological methods for the water recovery systems |SAE PAPER 921139| p 292 A93-41326 Manipulator system for module redocking on the Mir test, revision 1.1 A comparison of two Shuttle launch and entry suits -Orbital Complex
SPACECRAFT ENVIRONMENTS p 263 A93-35534 [NASA-CR-184390] p 64 N93-12966 Reach envelope, isokinetic strength, and treadmill tests Specification of adaptive aiding systems Dynamics of the controlled environment conditions in |SAE PAPER 921154| p 293 A93-41337 [AD-A263071] p 314 N93-27927 'SVET' greenhouse in flight p 152 A93-27460 Potential health effects of fume particles on the crew SPECIMENS of spacecrafts Living and working in space - Evolution of nursing in a Survey of aviation medical examiners: Information and p 308 A93-41545 ISAE PAPER 9213871 p 166 A93-28710 new environment attitudes about the pre-employment and pre-appointment Main medical results of extended flights on Space drug testing program Health in space - And on Earth p 156 A93-28738 Station Mir in 1986-1990 Skin care in the space environment p 218 N93-24088 A health care system for the Space Station p 170 A93-28756 SPECTRAL SENSITIVITY [NASA-TM-108093] p 65 N93-13571 Space Station Freedom Environmental Health Care Toward the ideal military aviation sunglass The environmental control and life-support system for [AD-A258200] p 140 N93-18200 a lunar base: What drives its design p 66 N93-13991 Applications of living systems theory to life in space ISAE PAPER 9211381 SPECTROPHOTOMETRY p 292 A93-41325 Zero gravity phase separator technologies - Past, present and future Enhancement of drug detection and identification by use p 105 N93-16865 of various derivatizing reagents on GC-FTIR analysis p 293 A93-41342 Life support and self-sufficiency in space communities AD-A255582 [SAE PAPER 921160] p 95 N93-16041 p 105 N93-16866 Conceptual design of ECLSS microgravity test beds SAE PAPER 921164 p 294 A93-41346 SPECTROSCOPIC ANALYSIS Ventilation loss in the NASA Space Shuttle crew Development of resonance ionization spectroscopy for protective garments: Potential for heat stress Sabatier carbon dioxide reduction system for Space genome mapping and DNA sequencing using stable p 148 N93-19955 Station Freedom isotopes as DNA labels p 294 A93-41368 Physiological responses to wearing the space shuttle p 246 N93-26587 [SAE PAPER 921189] [DE93-007815] launch and entry suit and the prototype advanced crew System integration and verification approach for the environmental control system of the Columbus Attached SPECTRUM ANALYSIS escape suit compared to the unsuited condition Spectral analysis of visual symbols p 30 A93-13718 [NASA-TP-3297] p 149 N93-20319 Pressurised Module Spectral analysis of the electroencephalographic p 299 A93-41431 Biomedical Monitoring and Countermeasures Facility p 116 A93-24041 ISAE PAPER 9212611 response to motion sickness The development and testing of a volatile organics p 205 N93-22624 MAC to VAX connectivity: Heartrate spectral analysis concentrator for use in monitoring Space Station water An on-orbit viewpoint of life sciences research p 254 N93-25594 system p 206 N93-22629 p 217 N93-22630 13 C NMR spectra of allosteric effectors of [SAE PAPER 921266] p 300 A93-41436 hemoalobin The analytical control program for the NASA Space Selection of astronauts for European space missions | AD-A262979 | p 284 N93-28293 Station Freedom Environmental Control and Life Support p 225 N93-24345 SPEECH System (ECLSS) Water Recovery Test The European astronauts training programme Headphone localization of speech

p 226 N93-24346

[SAE PAPER 921269]

p 300 A93-41439

p 394 A93-52507

SPEECH RECOGNITION SUBJECT INDEX

SPEECH RECOGNITION Controllability of the voice command system preliminary study p 27 A93-11287 Headphone localization of speech stimuli p 176 A93-27143 Evaluation of speech technology for enhancing performance of man-machine systems p 350 A93-44846 The use of voice processing for some aspects of the pilot-vehicle-interface in an aircraft p 146 N93-19772 G-load effects and efficient acoustic parameters for robust speaker recognition p
The adult literacy evaluator: p 146 N93-19775 An intelligent computer-aided training system for diagnosing adult illiterates p 258 Evol-ing technologies for Space Station Freedom computer-based workstations p 313 N93-27794 SPEED CONTROL p 365 N93-31457 Rotational speed control SPERMATOGENESIS Effect of an attenuated geomagnetic field on the cellular composition of the epithelial-spermogenous layer of rat testes p 240 A93-35229 Effects of spaceflight on the spermatogonial population p 329 A93-44935 of rat seminiferous epithelium SPERMATOZOA Sperm motility under conditions of weightlessness p 156 A93-28730 SPINAL CORD Comment on 'Optimum vehicle acceleration profile for minimum human injury' by C. P. Hatsell p 392 A93-49607 Improved head support stand adjustable compoundturnbuckle [AD-D015384] p 55 N93-15249 Secondary injury factors and preventative treatment [PB93-176014] p 283 N93-27409 SPINE Comparison of spinal health indicators in predicting spinal status in a 1-year longitudinal study p 216 A93-32786 The effect of variable seat back angles on human esponse to +Gz impact accelerations p 31 N93-11559 IAD-A2506731 Sudden loading and fatigue effects on the human IPB93-1675261 p 286 N93-29199 SPLEEN Effects of antiorthostatic suspension and corticosterone on macrophage and spleen cell function p 153 A93-28693 SPLINES Optimal design of composite hip implants using NASA technology p 174 N93-22188 SPORES Altered immunological response in mice subjected to stress and exposed to fungal spores |SAE PAPER 921215| p 274 A93-41391 Photobiological investigations on spores streptomyces griseus [ESA-TT-1269] p 277 N93-29274 SPRINGS (WATER) Preservation of biological information in thermal spring deposits - Developing a strategy for the search for fossil life on Mars p 197 A93-28377 Life in hot springs and hydrothermal vents p 243 A93-36559 **STAIRWAYS** Platform stair lift [NASA-CASE-MFS-28772-1] p 353 N93-29845 STANDARDIZATION Head-up display standardization and the utility of analog vertical velocity information during instrument flight p 189 A93-27451 Microbiological methods for the water recovery systems test revision 1.1 INASA-CR-1843901 p 64 N93-12966 Space biology initiative program definition review. Trade study 6: Space Station Freedom/spacelab modules compatibility p 209 N93-23081 [EFI-89-236] STAPHYLOCOCCUS Aquatic biofilms and their responses to disinfection and invading species [SAE PAPER 921211] p 296 A93-41387 STATIC LOADS An improved simulation based biomechanical model to

Analysis of disease progression from clinical observations of US Air Force active duty members infected with the Human Immunodeficiency Virus: Distribution of AIDS survival time from interval censored observations p 17 N93-11297 Evaluation and estimation of handling qualities via statistical modeling of pilot response data [AD-A255324] p 69 N93-14548 Statistical analysis of the human strangulation experiments: Comparison to +Gz-induced loss of consciousness IAD-A2554851 p 54 N93-14789 Age 60 Project: Consolidated database experiments [HS-TR-8025-3C(R2)] p 314 N93-27851 Determinants of performance rating accuracy: A field [AD-A264726] p 342 N93-30575 Application and validation of workload assessment techniques p 366 N93-32012 IAD-A2645751 STATISTICAL CORRELATION Functional state of the central nervous system of guinea pigs after a prolonged stay in artificial atmospheres with p 75 A93-18287 different das compositions STATISTICAL DECISION THEORY Theory of signal detection and its application to visual target acquisition: A review of the literature AD-A262920 p 288 N93-28307 STELLAR ATMOSPHERES Laboratory simulation of organic grain mantles p 268 A93-36554 STEREOCHEMISTRY Terrestrial and extraterrestrial sources of molecular p 110 A93-17986 STEREOSCOPIC VISION 3-D surface description from binocular stereo p 61 A93-14727 Using the stereokinetic effect to convey depth Computationally efficient depth-from-motion displays p 102 A93-19987 Spatial judgments with monoscopic and stereoscopic presentation of perspective displays p 102 A93-19988 Prospective assessment of stereoscopic visual status p 116 A93-24039 and USAF pilot training attrition Exocentric judgements in real environments and p 189 A93-27190 stereoscopic displays Factors that affect depth perception in stereoscopic p 230 A93-30455 p 223 A93-30456 Human stereopsis Human behavior in virtual environments p 233 A93-33447 Benefits, limitations, and guidelines for application of stereo 3-D display technology to environment p 350 A93-44895 Flight mechanics of high-performance aircraft | ISBN 0-521-34123-X | p 365 A93-47019 Depth-viewing-volume increase by collimation of stereo p 407 A93-52915 In-simulator assessment of trade-offs arising from mixture of color cuing and monocular, binoptic, and p 407 A93-52916 stereopsis cuing information Stereoscopic displays and applications III; Proceedings of the Meeting, San Jose, CA, Feb. 12, 13, 1992 | SPIE-1669 | p 408 A93-53119 High-resolution inserts in wide-angle head-mounted p 408 A93-53121 stereoscopic displays Higher order mechanisms of color vision I AD-A256369 I p 60 N93-15329 Intermediate levels of visual processing p 335 N93-30192 IAD-A2641171 STEREOSCOPY Intermediate levels of visual processing [AD-A264117] p 33 p 335 N93-30192 STEREOTELEVISION User evaluation of a stereoscopic display for space aining applications p 408 A93-53123 training applications STERILIZATION Water purification, microbiological control, sterilization and organic waste decomposition using an electrochemical advanced ozonation process [SAE PAPER 921234] p 297 A93-41408 STIFFNESS Hybrid 2 and hybrid 3 dummy neck properties for computer modeling AD-A255544 | p 66 N93-13874 STIMULANTS Pharmacological means of stimulating the work capacity of flight personnel engaged in stressful activity p 45 A93-15173 STIMULATION Modulation of respiratory responses to carotid sinus

microgravity on plant cells and organs? p 376 A93-49213 Constraints on learning in dynamic synapses [PREPRINT-890] p 100 N93-17026 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis p 222 N93-24763 [NASA-CR-193040] Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism INASA-CR-193041 | p 282 N93-27102 STIMILL Efficiency of using iterative hypoxic hypercapnic stimuli for enhancing cardiorespiratory reserves under the effect p 249 A93-35244 of radial accelerations Animal models in motion sickness research p 399 A93-55936 Investigating motion sickness using the conditioned taste aversion paradigm p 400 A93-55937 The accelerative stimulus for motion sickness p 410 A93-55938 Adaptation to the simulated stimulus rearrangement of weightlessness p 403 A93-55942 Adaptation to nauseogenic motion stimuli and its application in the treatment of airsickness p 404 A93-55947 STOCHASTIC PROCESSES 3-D surface description from binocular stereo p 61 A93-14727 Constraints on learning in dynamic synapses p 100 N93-17026 [PREPRINT-890] STOMACH A modified method for investigating gastric secretion p 359 A93-45692 in aviation medical examination STRATEGY Overconfidence, preview, and probability in strategic p 179 A93-27195 planning STREPTOMYCETES Photobiological investigations spores streptomyces griseus IESA-TT-12691 p 277 N93-29274 STRESS (BIOLOGY) Study of the whole-body response to vibration: The effect of repeated exposure to the long-term whole-body vibration. II p 9 A93-11286 Intracellular proteins produced by mammalian cells in response to environmental stress p 328 A93-44929 STRESS (PHYSIOLOGY) Altered baseline blood volume and the norepinephrine response to stress in humans p 43 A93-14123 Beta-endorphin and arginine vasopressin following stressful sensory stimuli in man p 47 A93-16158 Human stress - Measurement and consequences p 49 A93-17440 Molecular mechanisms of stress --- of astronauts during various phases of their lunar and Martian travels p 49 A93-17443 Predicting increases in skin temperature using heat stress indices and relative humidity in helicopter pilots p 167 Self-organizing character of alpha wave in EEG due to acute hypoxic hypoxia in normal subjects p 213 A93-30436 The state of the endocrine system of rats of different age under conditions of immobilization stress and biomos p 242 A93-35671 administration Human factors problems for aircrew-aircraft interfaces - Where should we focus our efforts? p 264 A93-37300 Altered immunological response in mice subjected to stress and exposed to fungal spores [SAE PAPER 921215] p 274 A93-41391 Changes in the intensity of free-radical reactions in the organs of rats under hypokinetic stress, protected by the delta-sleep-inducing peptide and its tyrosine-containing analogue p 378 A93-51101 Immune and physiological mechanisms of hypoxic p 384 A93-51116 A prospective evaluation of stress fractures/overuse injuries in a population of West Point cadets [AD-A252427] p 13 N93-10709 Space flight and immune system p 14 N93-11284 Thermal stress in US Air Force operations [AD-A255785] p 51 N93-14027 Physiological stress from chemical defense clothing and equipment AD-A255786 p 51 N93-14028 The relationship between environmental conditions and UH-60 cockpit temperature IAD-A2559181 p 69 N93-14090 Decision making in a dynamic task environment: The effect of time pressure IAD-A2565571 p 58 N93-14602

How well does the clinostat mimic the effect of

estimate static muscle loadings

The shopping bag approach

Examination of the relationship between changes in the

Individual differences and subgroups within populations

Long-range anticorrelations and non-Gaussian behavior

demand for civil aviation services and the volume of flight

STATISTICAL ANALYSIS

simulator training

of the heartbeat

p 160 A93-27172

p 98 A93-18773

p 136 A93-24050

p 161 A93-28049

nerve stimulation by brain hypoxia

stimulating cell growth in vitro

Mechanical forces and their second messengers in

Mapping of electrical muscle stimulation using MRI

p 79 A93-20038

p 204 A93-33043

p 279 A93-40549

SUBJECT INDEX		SURVIVAL
Training, muscle tatigue and stress fractures [AD-A255277] p.54 N93-15006	Evaluation of hole sizes in structures requiring EVA services as a means to prevent gloved-hand finger	SULFONIC ACID Carboxyalkylated hemoglobin as a potential blood
The effect of pain on task performance: A review of	entrapment	substitute
the literature AD-A254336 p 59 N93-15216	[NASA-TM-104767] p 234 N93-23129 STRUCTURAL ENGINEERING	AD-A252329 p 22 N93-11561 SULFUR
Development and enhancement of a model of performance and decision making under stress in a real	GENESIS 2: Advanced lunar outpost p 352 N93-29760	Marine microbial production of dimethylsulfide from dissolved dimethylsulfoniopropionate
life setting	STRUCTURAL FAILURE	[NASA-CR-193278] p 330 N93-30665
[AD-A255699] p 99 N93-16111	The effects of structural failure on injuries sustained in the M1 Boeing 737 disaster, January 1989	SUN
Development and enhancement of a mode of performance and decision making under stress in a real	p 118 A93-25201	Habitable zones around main sequence stars p 197 A93-28376
life setting	Can injury scoring techniques provide additional	SUNGLASSES
[AD-A257796] p 123 N93-18363	information for crash investigators? p 125 N93-19663 STRUCTURAL RELIABILITY	Toward the ideal military aviation sunglass
Ventilation loss in the NASA Space Shuttle crew protective garments: Potential for heat stress	Probabilistic simulation of the human factor in structural	[AD-A258200] p 140 N93-18200 SUPERSONIC AIRCRAFT
[AD-A258552] p 148 N93-19955	reliability p 365 N93-31573 STRUCTURAL VIBRATION	Physiological indices of mental workload
Evaluation of two microclimate cooling air vests on a	Development of a large space robot - A multi-segment	[AD-A261692] p 260 N93-26391
heated mannequin [AD-A259410] p 194 N93-21269	approach. II	SUPPORT SYSTEMS Military aircrew head support system
Stress resistance as a diagnostic category in air traffic	[AIAA PAPER 93-1464] p 262 A93-34013 Design of a vibration isolation system for a cycle	p 231 A93-31944
controller selection [DLR-FB-92-13] p 219 N93-24092	ergometer to be used onboard the Space Shuttle	Introduction to training decisions modeling technologies:
[DLR-FB-92-13] p 219 N93-24092 Cardiovascular stress test with non-invasive	[NASA-CR-192021] p 138 N93-17970 Transmission of vibration through the human body to	The training decisions system [AD-A249862] p 27 N93-12252
techniques p 221 N93-24399	the head: A summary of experimental data	Operator Performance Support System (OPSS)
Evaluation of personal cooling systems in conjunction	[ISVR-TR-218] p 361 N93-32237	p 196 N93-22195
with explosive ordnance disposal suits [AD-A262862] p 350 N93-29471	STUDENTS Questioning mechanisms during complex learning	Treatment of human-computer interface in a decision support system
Selection of personnel for stressful occupations: The	[AD-A247382] p 26 N93-11415	(DE93-002281) p 237 N93-24502
potential utility of psychophysiological measures as selection tools	Suited for spacewalking: A teacher's guide with	SUPPORTS
[AD-A264571] p 363 N93-32011	activities [NASA-EP-279] p 65 N93-13692	Improved head support stand adjustable by compoundturnbuckle
STRESS (PSYCHOLOGY) Human stress - Measurement and consequences	Contribution of personality to the prediction of success	[AD-D015384] p 55 N93-15249
p 49 A93-17440	in initial air traffic control specialist training	SURFACE CRACKS Formation of reduced carbonaceous matter in basalts
Psychophysiological stress research - Methodology and	DOT/FAA/AM-93/4 p 259 N93-26138 SUBCONTRACTS	and xenoliths - Reaction of C-O-H gases on olivine crack
results of an investigation involving air traffic controllers [ISBN-3-258-04585-2] p 97 A93-17971	Human factors research in aircrew performance and	surfaces space biological evolution
Influence of stress on lymphocyte subset distribution -	training: 1986-1991 [AD-A254455] p 63 N93-12609	p 411 A93-53286 SURFACE NAVIGATION
A flow cytometric study in young student pilots p 118 A93-25203	SUBMARINES	Conspiculty of aids to navigation. Part 1: Temporal
An individual differences approach to fitness-for-duty	A low pressure electrolyzer for the next generation	patterns for flashing lights [AD-A264626] p 341 N93-30426
assessment p 178 A93-27178 Effects of 28-day isolation (ESA-ISEMSI'90) on blood	submarine SAE PAPER 921125 p 291 A93-41316	[AD-A264626] p 341 N93-30426 SURGERY
pressure and blood volume regulating hormones	Submarine Advanced Integrated Life Support system	Animal surgery in microgravity p 112 A93-24047
p 251 A93-35495	(SAILS) program	Challenges of space medical operations and life sciences management p 155 A93-28716
Changes in the brain blood flow and respiration during psychoemotional stress p 252 A93-36723	[AD-A253564] p 32 N93-11812 Membrane technology: A search for membranes for	Management of trauma and emergency surgery in
Diagnostics and prophylaxis of adverse psychological	 submarine atmosphere control 	space p 167 A93-28734
states in marine aviation flight personnel p 257 A93-36744	[AD-A260581] p 266 N93-25904	Photo-Refractive Keratectomy (PRK) - Threat or millennium for military pilots? p 401 A93-55169
Drugs for sustaining the work capacity of aircraft	SUBMERGING Decrement in manual arm performance during whole	Postoperative hyperbaric oxygen treatment of peripheral
personnel during extreme emotional stress p 253 A93-36745	body cooling p 88 A93-18038	nerve damage
DoD space radiation concerns	Effect of task complexity on mental performance during immersion hypothermia p 211 A93-30279	[AD-A255842] p 52 N93-14084 SURVEYS
[AD-A253135] p 13 N93-10613 Space flight and immune system p 14 N93-11284	Vestibulo-oculomotor responses under conditions of	Smoking status and body composition, exercise, dietary
Space flight and immune system p 14 N93-11284 Stress resistance as a diagnostic category in air traffic	immersion hypokinesia p 251 A93-35256	intake, and alcohol/caffeine consumption [AD-A250648] p 23 N93-11893
controller selection	Effect of hemorrhage on cardiac output, vasopressin, aldosterone, and diuresis during immersion in men	Aircrew acceptance of automation in the cockpit
[DLR-FB-92-13] p 219 N93-24092 Selection of personnel for stressful occupations: The	[NASA-TM-103949] p 6 N93-12014	p 144 N93-19761
potential utility of psychophysiological measures as	SUBSTITUTES Carbovelly letted hamaglable as a potential blood	Survey of aviation medical examiners: Information and attitudes about the pre-employment and pre-appointment
selection tools [AD-A264\$71] p 363 N93-32011	Carboxyalkylated hemoglobin as a potential blood substitute	drug testing program
STRESS ANALYSIS	[AD-A252329] p 22 N93-11561	[DOT/FAA/AM-92/15] p 218 N93-24088
A prospective evaluation of stress fractures/overuse injuries in a population of West Point cadets	SUBSTRATES Influence of the Cold Buster (tm) sports bar on heat	Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females,
[AD-A252427] p 13 N93-10709	debt, mobilization and oxidation of energy substrates	1946-1988
STRESS MEASUREMENT Time stress measurement devices for enhancement of	AD-A262762 p 285 N93-28939 SUCTION	[AD-A260869] p 265 N93-25628 Anthropometric survey of the astronaut applicants and
onboard bit performance p 144 N93-19762	Effect of cytoskeletal reagents on stretch activated ion	astronauts from 1985 to 1991
STRESS-STRAIN RELATIONSHIPS	channels	[NASA-RP-1304] p 321 N93-29324
Effect of cytoskeletal reagents on stretch activated ion channels	[AD-A261089] p 245 N93-25764 SUITS	The lifestyle and dietary consumption patterns of United States Air Force aviators within air training command at
[AD-A261089] p 245 N93-25764	Evaluation of personal cooling systems in conjunction	Randolph Air Force Base, Texas p 369 N93-32257
STRUCTURAL DESIGN Industrial design influence on today's flight decks	with explosive ordnance disposal suits [AD-A262862] p 350 N93-29471	SURVIVAL K.E. Tsiolkovsky and biomedical problems connected
p 61 A93-14378	[AD-A262862] p 350 N93-29471 SULFATES	with space exploration; Lectures Devoted to K.E.
Air Traffic Control facility lighting p 188 A93-27167 Development of a large space robot - A multi-segment	Bacterial sulfate reduction above 100 C in deep-sea	Tsiolkovsky's Ideas, 25th, Kaluga, Russia, Sept. 11-14, 1990, Transactions p 90 A93-18406
approach.	hydrothermal vent sediments p 80 A93-20672 Localization of extracellular matrix components in	K.E. Tsiolkovsky on the problem of human survival in
[AIAA PAPER 93-1463] p 261 A93-34012 Development of a large space robot - A multi-segment	developing mouse salivary glands by confocal	extreme environments (On the earth and in space) p 77 A93-18407
approach. II	microscopy p 155 A93-28725	The effects of prolonged weightlessness and reduced
[AIAA PAPER 93-1464] p 262 A93-34013	Marine microbial production of dimethylsulfide from dissolved dimethylsulfoniopropionate	gravity environments on human survival
Inflatable habitation for the lunar base p 106 N93-17442	[NASA-CR-193278] p 330 N93-30665	p 214 A93-30773 Altering the position of the first horizontal cleavage
Design of a radiator shade for testing in a simulated	SULFIDES Magnetic domain state and coercivity predictions for	furrow of the amphibian (Xenopus) egg reduces embryonic
lunar environment [NASA-CR-192080] p 108 N93-17710	biogenic greigite (Fe3S4) - A comparison of theory with	survival p 272 A93-39717 Biosphere 2 - Overview of system performance during
STRUCTURAL DESIGN CRITERIA	magnetosome observations p 38 A93-16481	the first nine months
A trade study method for determining the design parameter of CELSS subsystems	Mineral theories of the origin of life and an iron sulfide example p 74 A93-18009	[SAE PAPER 921129] p 291 A93-41317 Mechanisms of immune failure in burn injury
SAE PAPER 921198 p 295 A93-41374	Biological conversion of synthesis gas culture	p 15 N93-11285
Power assist EVA glove development {SAE PAPER 921255 p 299 A93-41425	development [DE92-001279] p 6 N93-12482	Applications of living systems theory to life in space p 105 N93-16865
1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	[OC52-001210] p 0 1100-12402	p 103 1130-10003

SUBJECT INDEX

SUSPENDING (HANGING) Nutrition and hydration status of aircrew members Evaporation cycle experiments - A simulation of Implementation of biological elements in life support consuming the food packet, survival, general purpose, salt-induced peptide synthesis under possible prebiotic systems - Rationale and development milestones improved during a simulated survival scenario conditions n 354 A93-43792 IAD-A2587441 p 128 N93-20384 Research of a free-flying telerobot. IV - Development Nucleotide analogs based on pentaerythritol - An Optimization of 15 parameters influencing the long-term of dual-arm manipulation system p 411 A93-56254 p 325 A93-43794 survival of bacteria in aquatic systems A voyage to Mars: A challenge to collaboration between Biological conversion of synthesis gas culture INASA-CR-192571 p 359 N93-32365 p 70 N93-14614 man and machines SUSPENDING (HANGING) A monitoring and control system for complex man-machine systems: Preliminary design I DE92-0012791 p 6 N93-12482 Protection of Acanthopanax senticosus against suspension-induced bone loss in rats p 2 A93-13528 Hydrothermal organic synthesis experiments p 70 N93-14951 p 41 N93-13457 [NASA-CR-191257] Effects of antimotion sickness drug mixture B on Advanced Aircraft Interfaces: The Machine Side of the 13 C NMR spectra of allosteric effectors of ultrastructures of cerebral and cerebellar cortexes in Man-Machine Interface p 10 A93-13704 suspended rabbits [AGARD-CP-521] p 144 N93-19757 Effects of vitamin 'D and phosphorus level in diet on p 284 N93-28293 LAD-A2629791 The integration of advanced cockpit and systems bone, skeletal muscle and kidney in suspended rats SYNTHETIC FIBERS p 147 N93-19779 design Correlation of results of radiant heat test and convective p 77 A93-19994 Architecture of autonomous systems Ultrastructural and biochemical studies on muscle heat test for three layered protective clothing [NASA-CR-192974] p 266 N93-26047 p 194 N93-21161 atrophy induced by suspension and suspension with Specification of adaptive aiding systems p 314 N93-27927 denervation in lower limbs of rats Finite element analysis of a composite artificial ankle p 200 A93-31530 IAD-A2630711 Protection of Chinese medicine and low frequency n 174 N93-22189 Operator and automation capability analysis: Picking the magnetic field against suspension induced bone loss in p 319 N93-28864 SYNTHETIC FUELS right team rat p 327 A93-44844 Introductions to the Proceedings of the Fourteenth System automation and pilot-vehicle-interface for A simple hindlimb suspension apparatus unconstrained low-altitude night attack Symposium on Biotechnology for Fuels and Chemicals p 398 A93-55168 p 320 N93-28867 p 276 N93-28890 LDE93-0062351 SWIMMING Overview of cockpit technology research and SYSTEM EFFECTIVENESS Swimming behavior of the unicellular flagellate, Euglena Real-time expert system interfaces, cognitive processes, development programs for improvement of the man/machine interface: Review of the AGARD AVP gracilis, in simulated and real microgravity and task performance - An empirical assessment p 151 A93-26549 Symposium held in Madrid, May 1992 p 394 A93-52503 Multiple evolutionary origins of p 320 N93-28872 magnetotaxis in Health maintenance facility system effectiveness p 153 A93-27799 SYSTEMS INTEGRATION testing SWINE Individual differences in computerized test performance p 372 N93-32328 INASA-TM-1047371 Systemic and pulmonary hypertension after resuscitation for systems integration in cockpit management SYSTEM FAILURES with cell-free hemoglobin p 177 A93-27176 The effects of history and predictive information on the [AD-A258185] Helmet-mounted systems technology planning for the p 120 N93-17900 ability of the transport aircraft pilot to predict an alert SYMBOLS n 227 A93-30052 p 365 A93-46810 Symbology for head up and head down applications for I-NIGHTS and beyond --- Interim-Night Integrated High level organizing principles for display of systems highly agile fighter aircraft: To improve spatial awareness, Goggle and Head Tracking System p 227 A93-30054 fault information for commercial flight crews trajectory control, and unusual attitude recovery, part 1 Overview of NASA's 1991 Life Support Systems Analysis p 388 A93-52187 p 318 N93-28857 Workshop The test memorization of symbols and numbers: A SYSTEM IDENTIFICATION |SAE PAPER 921118| p 290 A93-41310 'Liveware' survey of human systems integration (HSI) ols p 349 A93-42847 Application of system identification to research on computer generated test for visual sensitivity D 3 A93-13544 cardiovascular regulative function p 343 N93-31233 SYMMETRY SYSTEMS ANALYSIS The integration of advanced cockpit and systems Relation between perception of vertical axis rotation and A systems analysis to identify human factors issues and p 147 N93-19779 design vestibulo-ocular reflex symmetry requirements for data link p 186 A93-27153 Space Station ECLSS integration analysis p 214 A93-32176 p 195 N93-22002 SYMPATHETIC NERVOUS SYSTEM Overview of NASA's 1991 Life Support Systems Analysis INASA-CR-1924701 hemodynamics Investigation of Workshop Environmental control and life support system p 290 A93-41310 sympatheticoadrenal system activity in air traffic controlle [SAE PAPER 921118] p.311 N93-27719 evolution during their work Compat Automation for Airborne Weapon Systems: p 247 A93-35209 TRIALSS - Tool for Rapid and Intelligent Advanced Life Features of the effect of hypokinesia on cardiac activity Man/Machine Interface Trends and Technologies |AGARD-CP-520| p 317 N93-28850 Support System Selection and Sizing in rats with high and low spontaneous motor activity
p 240 A93-35224 |SAE PAPER 921123| p 291 A93-41315 SYSTEMS SIMULATION 'Liveware' survey of human systems integration (HSI) Tissue-specific noradrenergic activity during acute heat р 349 А93-42847 Functions simulation model of integrated regenerable tools stress in rats p 323 A93-42193 Development of the Personnel-based System Evaluation life support system Effect of water immersion on muscle sympathetic nerve |SAE PAPER 921201| p 295 A93-41377 Aid (PER-SEVAL) performance shaping functions p 26 N93-11779 SYSTOLIC PRESSURE response during static muscle contraction IAD-A2528201 Relationship between alcohol drinking habit and blood p 402 A93-55328 Applications of living systems theory to life in space Melatonin, the pineal gland, and circadian rhythms pressure changes during the period of 25 years on JASDF p 105 N93-16865 [AD-A264099] p 337 N93-31061 aged pilots p 333 A93-45321 1991 NASA Life Support Systems Analysis workshop p 310 N93-27100 [NASA-CR-4466] Persistent blockade of potassium-evoked serotonin 1992 NASA Life Support Systems Analysis workshop release from rat frontocortical terminals after fluoxetine [NASA-CR-4467] p 310 N93-27101 Lunar base thermal management/power system analysis and design p 315 N93-27985 p 202 A93-32125 TABLES (DATA) Biophysical and biochemical mechanisms in synaptic based Statistically decompression transmitter release SYSTEMS ENGINEERING [AD-A256340] Linear-exponential kinetics p 55 N93-15198 Study of overall analysis man-machine-environment systems method of the p 61 A93-14413 p 120 N93-17926 [AD-A2576131 Non-invasive evaluation of the cardiac autonomic **TACTILE SENSORS (ROBOTICS)** nervous system by PET In search of the human touch --- in design of robotic [DE92-041077] p 96 N93-16441 In search of the human touch --in design of robotic p 102 A93-19256 Constraints on learning in dynamic synapses hands p 102 A93-19256 Individual differences in computerized test performance I PREPRINT-890 I p 100 N93-17026 for systems integration in cockpit management Using tactile information in telerobotics Electrically modifiable nonvolatile SONOS synapses for n 177 A93-27176 p 138 A93-25482 electronic neural networks Functions simulation model of integrated regenerable Modeling of a full vision system using combined [AD-A258318] p 122 N93-18252 life support system [SAE PAPER 921201] Visual/Haptic search for remote object identification Theory of synaptic plasticity in visual cortex p 295 A93-41377 p 266 N93-25867 [AD-A260977] p 219 N93-24238 LAD-A2603221 Simplified analysis of water distribution for Space Station TAKEOFF Biophysical and biochemical mechanisms in synaptic Freedom A study of decision making and performance in rejected transmitter release [SAE PAPER 921230] p 296 A93-41404 takeoffs [AD-A2648291 p 336 N93-30613 Evaluation of the carbon dioxide removal assembly ISAE PAPER 9211341 p 287 A93-41322 SYNCHRONISM requirements for the Space Station Freedom in the Manned A comparative evaluation of three take-off performance Tended Capability through Permanently Manned Capability Acoustical and vibratory stimuli interdependencies and monitor display types their applications in simulation and cue synchronization configurations [AIAA PAPER 93-3608] p 406 A93-52669 [AIAA PAPER 93-3562] p 406 A93-52662 n 297 A93-41405 ISAE PAPER 9212311 **TANKS (COMBAT VEHICLES)** Design and preliminary testing of a membrane based Neurochemical control of circadian rhythms A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255054] p 50 N93-13116 water recycling system for European manned space SYNCOPE p 53 N93-14556 IAD-A2555531 Cases from the aerospace medicine residents' teaching file: Case No.52 - A flyer with syncope (clinical conference) p 168 A93-28740 |SAE PAPER 921396| n 309 A93-41553 TARGET ACQUISITION Hermes ECLSS - Main requirements and technical

solutions

teams

SAE PAPER 921400

of man-machine systems

target cuer system

Human performance data visualization for system design

Task allocation and automation in design and operation from man-machine systems p 348 A93-42842

Design of the man-machine interface for an automatic

tables

p 348 A93-42843

p 408 A93-53120

p 107 N93-17697

Design of the man-machine interface for an automatic

3-D target designation using two control devices and

Evaluation of Night Vision Goggles (NVG) for maritime

an aiding technique --- in fighter cockpits

target cuer system

search and rescue

[AD-A257704]

n 309 A93-41555

p 348 A93-42840

p 348 A93-42843

of Consciousness (G-LOC)

SYNTHESIS (CHEMISTRY)

1SAE PAPER 9212381

[AD-A264492]

Acquisition of physiological data during G-induced Loss

Development of the nitrogen fixation system for

p 335 N93-30400

p 297 A93-41411

SUBJECT INDEX **TELEOPERATORS**

OCCOUNTEDEX		TELEGRETATIONS
Toward the ideal military aviation sunglass	Effect of task complexity on mental performance during	Intensified CCD sensor applications for helmet-mounted
[AD-A258200] p 140 N93-18200	immersion hypothermia p 211 A93-30279	displays p 228 A93-30064
Stimulus presentation formats and measurement	Cognitive competencies - Products of genes,	Anthropometry for HMD design using
techniques for the quantification of target detection performance	experience, and technology for training of primates p 201 A93-32113	three-dimensional quantitative morphology p 229 A93-30069
[AD-A258933] p 133 N93-19449	Learning about primates' learning, language, and	Ultraviolet disinfection technology assessment
Theory of signal detection and its application to visual	cognition p 201 A93-32124	[PB92-222868] p 64 N93-12983
target acquisition: A review of the literature	A force-reflecting teleoperated hand system for the study of tactile sensing in precision manipulation	1991 NASA Life Support Systems Analysis workshop
[AD-A262920] p 288 N93-28307	p 263 A93-35536	'INASA-CR-4466 p 310 N93-27100
Effects of area-of-interest display characteristics of visual search performance and head movements in	A procedure for the frequency analysis of telerobotic	1992 NASA Life Support Systems Analysis workshop [NASA-CR-4467] p 310 N93-27101
simulated low-level flight	tasks data p 392 A93-50513	The ECLSS advanced automation project evolution and
[AD-A264661] p 341 N93-30542	Human performance in complex task environments: A basis for the application of adaptive automation	technology assessment p 312 N93-27723
Involuntary attentional capture by abrupt onsets	[AD-A255067] p 35 N93-12486	Assessment of the state of the art in life support
p 97 A93-17974	Dual-task training strategies and aging	environmental control for SEI p 315 N93-27978
Target designation in a perspective view, 3-D map using	[AD-A258261] p 131 N93-18027 The central executive component of working memory	TECHNOLOGY UTILIZATION The strategic role of automation and robotics for
a joystick, hand tracker, or voice p 186 A93-27145	[AD-A258724] p 135 N93-20326	Columbus utilization p 181 A93-26567
Movement tracking performance as a function of	TASK PLANNING (ROBOTICS)	NASA's telerobotics research program
required force level p 177 A93-27171 Proposed evaluation framework for assessing operator	Knowledge-based task planning for the Special Purpose Dextrous Manipulator p 191 A93-29110	p 263 A93-35566
performance with multisensor displays	Dimensions of complexity in learning from interactive	Benefits, limitations, and guidelines for application of stereo 3-D display technology to the cockpit
p 232 A93-33444	instruction for robotic systems deployed in space	environment p 350 A93-44895
Human factors problems for aircrew-aircraft interfaces	p 191 A93-29111	Machine vision in space p 395 A93-52641
- Where should we focus our efforts? p 264 A93-37300	Telerobotic system performance measurement - Motivation and methods p 191 A93-29114	Design of a portable powered seat lift
Design of the man-machine interface for an automatic	Recent developments at the Goddard Engineering Test	p 195 N93-22190
target cuer system p 348 A93-42843	Bed for force reflecting teleoperation system	JPRS report: Science and technology. Central Eurasia: Life sciences
Psychophysiological study on the effects of co-existence	p 192 A93-29115 Human-like agents with posture planning ability	[JPRS-ULS-93-005] p 276 N93-28683
of lines for detecting dot target p 405 A93-55330 Evaluation of Night Vision Goggles (NVG) for maritime	p 192 A93-29118	JPRS report: Science and technology. Central Eurasia:
search and rescue (joint Canadian/US Coast Guard	Optimizing dynamic transparency in teleoperator	Life sciences
experiment) [AD-A255525] p 70 N93-14554	architectures [AAS PAPER 92-056] p 392 A93-50596	[JPRS-ULS-92-027] p 276 N93-28684 TELEMETRY
[AD-A255525] p 70 N93-14554 Multimodal interactions in sensory-motor processing	Intelligent sensing and control for advanced	Validation of two temperature pill telemetry systems in
[AD-A255780] p 59 N93-15067	teleoperation p 409 A93-54158	humans during moderate and strenuous exercise
Stimulus presentation formats and measurement	A vision system planner for increasing the autonomy	[AD-A259068] p 124 N93-19072
techniques for the quantification of target detection performance	of the Extravehicular Activity Helper/Retriever [NASA-CR-193301] p 365 N93-31844	TELEOPERATORS Teleoperation to robotics at Langley Research Center
[AD-A258933] p 133 N93-19449	TASKS	p 101 A93-18569
Man-machine interface with simulated automatic target	Operator workload predictions for the revised AH-64A	Eye slaved pointing system for teleoperator control
recognition systems p 147 N93-19781 Adaptive autonomous target cuer p 148 N93-19784	workload prediction model, volume 1 [AD-A254198] p 30 N93-10261	p 101 A93-19090 World model and its uncertainty in supervisory robot
Theory of signal detection and its application to visual	The effects of wearing protective chemical warfare	control p 183 A93-27027
target acquisition: A review of the literature	combat clothing on human performance	Virtual display aids for teleoperation
[AD-A262920] p 288 N93-28307	[AD-A250716] p 35 N93-12491 Behavioral effects of high peak power microwave pulses:	p 183 A93-27029
Effects of area-of-interest display characteristics of visual search performance and head movements in	Head exposure at 1.3 GHz	Real time proximity cues for teleoperation using model based force reflection p 184 A93-27033
simulated low-level flight	[AD-A258136] p 120 N93-17985	The Servicing Aid Tool teleoperated manipulation
[AD-A264661] p 341 N93-30542	Dual-task training strategies and aging [AD-A258261] p 131 N93-18027	system for space shuttle orbiters p 192 A93-29116
TARGET SIMULATORS Man-machine interface with simulated automatic target	Decision paths in complex tasks	A teleoperation training simulator with visual and kinesthetic force virtual reality p 233 A93-33448
recognition systems p 147 N93-19781	[NASA-CR-192121] p 132 N93-18359	Timing considerations of Helmet Mounted Display
TARGETS	Application and validation of workload assessment techniques	performance p 233 A93-33449
Comparative assessment of psychomotor performance - Target prediction by humans and macaques (Macaca	[AD-A264575] p 366 N93-32012	A force-reflecting teleoperated hand system for the study of tactile sensing in precision manipulation
mulatta) p 204 A93-33035	Man-machine cooperation in advanced teleoperation	p 263 A93-35536
Dynamic analysis of human visuo-oculo-manual	p 366 N93-32106 TAXONOMY	Visual specification of robot motion
coordination control in target tracking tasks p 287 A93-41166	Errors in aviation maintenance - Taxonomy and	p 348 A93-42845 Kinematics and control of a fully parallel force-reflecting
TASK COMPLEXITY	control p 175 A93-27135	hand controller for manipulator teleoperation
Designing the right visor p 181 A93-26885	Revision of the Wind River faunas, early Eccene of	p 364 A93-45598
Workload or situational awareness? TLX vs. SART for aerospace systems design evaluation Task Load	central Wyoming. X - Bunophorus (Mammalia, Artiodactyla) p 203 A93-33026	Designs and development of a master-slava teleoperated robot p 390 A93-49357
Index p 175 A93-27139	TEAMS	Transforming human hand motion for telemanipulation
The effect of type of task, degree of integration, and	The role of mental models in team performance in	p 390 A93-49394
modality on the performance of concurrent tasks p 175 A93-27140	complex systems p 262 A93-34985 Computer-supported collaborative work - A new agenda	Operator performance with alternative manual control modes in teleoperation p 390 A93-49397
Experimental validation of the attention switching	for human factors engineering p 348 A93-42841	Synthetic experience - A proposed taxonomy
component of the COGNET framework	TECHNOLOGICAL FORECASTING	p 390 A93-49398
p 186 A93-27141 Electronic map interpretation in a dual-task context	Helmet-mounted systems technology planning for the future p 227 A93-30052	Interactive and cooperative sensing and control for advanced teleoperation p 391 A93-49443
p 176 A93-27144	Water reclamation technology development for future	Optimizing dynamic transparency in teleoperator
Response to automated function failure cue - Ari	long range missions	architectures
operational measure of complacency p 176 A93-27147	[SAE PAPER 921351] p 306 A93-41510 TECHNOLOGIES	[AAS PAPER 92-056] p 392 A93-50596 A low cost helmet-mounted camera/display system for
Complex task performance as a basis for developing	JPRS report: Science and technology. Central Eurasia:	field testing teleoperator tasks p 408 A93-53122
cognitive engineering guidelines in adaptive automation	Life sciences	Intelligent sensing and control for advanced
p 186 A93-27148	[JPRS-ULS-92-025] p 244 N93-25405 JPRS report: Science and technology. Central Eurasia:	teleoperation p 409 A93-54158
Reclined seating in advanced crewstations - Human performance considerations p 186 A93-27151	Life sciences	Integrated tools for teleoperated satellite repair p 409 A93-54845
Colour head-up displays - Help or hindrance?	[JPRS-ULS-92-020] p 244 N93-25406	Operator vision aids for space teleoperation assembly
p 187 A93-27154	JPRS report: Science and technology. Central Eurasia: Life sciences	and servicing p 33 N93-11981 A study of the effects of lens focal length on remote
Evaluating robot procedures and tasks for the flight telerobotic servicer p 187 A93-27156	[JPRS-ULS-92-022] p 253 N93-25407	A study of the effects of tens focal length on femote driver performance
Task-analytic evaluations of Space Station Freedom	TECHNOLOGY ASSESSMENT	[AD-A263191] p 321 N93-28941
workstations p 187 A93-27157	Advances in training technology and the role of the instructor p 98 A93-18775	Man-machine cooperation in advanced teleoperation
Using GOMS models and hypertext to create representations of medical procedures for online display	Animal surgery in microgravity p 112 A93-24047	p 366 N93-32106 Integration of advanced teleoperation technologies for
p 188 A93-27170	Biomedical engineering - A means to add new dimension	control of space robots p 366 N93-32107
Effects of fatigue and heat stress on vigilance of workers	to medicine and research p 190 A93-28717 Helmet-mounted systems test and evaluation process	Interactive and cooperative sensing and control for
in protective clothing p 177 A93-27173 Computerized task battery assessment of cognitive and	p 227 A93-30053	advanced teleoperation p 366 N93-32108 TeleOperator/telePresence System (TOPS) Concept
performance effects of acute phenytoin motion sickness	I-NIGHTS and beyond Interim-Night Integrated	Verification Model (CVM) development
therapy p 211 A93-30278	Goggle and Head Tracking System p 227 A93-30054	p 367 N93-32112

TELEROBOTICS SUBJECT INDEX

TELEROBOTICS	loint annual lunares to the distance and the	Measurement of behavioral thermoregulation
Space robotics and its man-machine interface	Joint-space Lyapunov-based direct adaptive control of a kinematically redundant telerobot manipulator	PB92-217033 p 172 N93-21046
p 27 A93-11204	p 407 A93-53038	TEMPERATURE MEASUREMENT
Space telerobotic research and applications at Space	Remote surface inspection system of large space	Adjustable temperature level of a physiological
Systems/Loral p 62 A93-15588	platforms p 410 A93-55469	thermostat and the feasibility of its precise maintenance p 324 A93-43036
Teleoperation to robotics at Langley Research Center	Research of a free-flying telerobot. IV - Development	Monitoring core temperature during exercise - Ingestible
p 101 A93-18569	of dual-arm manipulation system p 411 A93-56254 Research of a free-flying telerobot. V - Handling a target	sensor vs. rectal thermistor p 394 A93-52309
Evaluation of inertial devices for the control of large,	with multi-arms p 411 A93-56255	Validation of two temperature pill telemetry systems in
flexible, space-based telerobotic arms	Telemanipulation experiment using predictive display	humans during moderate and strenuous exercise
p 101 A93-18710	p 411 A93-56256	[AD-A259068] p 124 N93-19072
Collision avoidance of a multiple degree of redundancy manipulator operating through a window	Skill compensation and dynamic coupling of	TEMPERATURE PROFILES Stimulation of lettuce productivity by manipulation of
p 136 A93-23846	macro/smart effector system p 411 A93-56260 Operator vision aids for space teleoperation assembly	diurnal temperature and light p 327 A93-44879
Research and development of sensing and manipulation	and servicing p 33 N93-11981	TEMPERATURE SENSORS
techniques for space robotics on a testbed	Design requirements for force reflecting master	Monitoring core temperature during exercise - Ingestible
[AIAA PAPER 93-0794] p 136 A93-24873	controllers p 139 N93-18035	sensor vs. rectal thermistor p 394 A93-52309
Fusing human and machine skills for remote robotic operations p 137 A93-24994	Modeling of a full vision system using combined	TEMPORAL DISTRIBUTION
operations p 137 A93-24994 Using tactile information in telerobotics	Visual/Haptic search for remote object identification	Parametric study of diffusion-enhancement networks for spatiotemporal grouping in real-time artificial vision
p 138 A93-25482	[AD-A260977] p 266 N93-25867 EVA and telerobot interaction p 312 N93-27792	[AD-A256059] p 58 N93-14580
Cooperative intelligent robotics in space II; Proceedings	Man-machine cooperation in advanced teleoperation	TEMPORAL RESOLUTION
of the Meeting, Boston, MA, Nov. 12-14, 1991	p 366 N93-32106	Spatio-temporal masking: Hyperacuity and local
[SPIE-1612] p 182 A93-27001	TeleOperator/telePresence System (TOPS) Concept	adaptation
Accuracy of locating circular features using machine	Verification Model (CVM) development	[AD-A257934] p 121 N93-18006
wision for robotic systems p 182 A93-27022 World model and its uncertainty in supervisory robot	p 367 N93-32112	TENSION Effect of cytoskeletal reagents on stretch activated ion
control p 183 A93-27027	TEMPERATURE CONTROL Experimental research of the temperature and humidity	channels
Emergence of telerobotic control enhancement from	control system for manned spacecraft cabin	[AD-A261089] p 245 N93-25764
research in machine autonomy p 183 A93-27028	p 10 A93-13529	TERRAIN
Virtual display aids for teleoperation	Analysis of the Variable Pressure Growth Chamber using	Perceptual dimensions of visual scenes relevant for
p 183 A93-27029	the CASE/A simulation package	simulating low-attitude flight [AD-A254645] p 57 N93-12662
A telerobotic virtual control system p 183 A93-27030	SAE PAPER 921122 p 291 A93-41314	[AD-A254645] p 57 N93-12662 Flight above a virtual world p 145 N93-19766
Incorporating robot vision in tele-autonomous systems	Pressure, composition, and temperature control of cabin atmosphere on Space Station Freedom	TERRAIN ANALYSIS
p 184 A93-27031	[SAE PAPER 921216] p 296 A93-41392	Multidimensional scaling analysis of terrain features
Interactive Scene Analysis Module - A sensor-database	Environmental control of the Mini Pressurized Logistic	relevant for simulating low-altitude flight
fusion system for telerobotic environments	Module	p 188 A93-27186
p 184 A93-27032 Real time proximity cues for teleoperation using model	SAE PAPER 921281 p 302 A93-41449	An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573
based force reflection p 184 A93-27033	Metabolic responses to simulated extravehicular activity	Line-of-sight determination in real-time simulations
Neutral buoyancy simulation of space telerobotics	[SAE PAPER 921303] p 282 A93-41468	[AIAA PAPER 93-3567] p 406 A93-52666
operations p 185 A93-27038	ASDA - Advanced Suit Design Analyzer computer	Perceptual dimensions of visual scenes relevant for
Evaluating robot procedures and tasks for the flight	program	simulating low-altitude flight
telerobotic servicer p 187 A93-27156 Flight Telerobotic Servicer legacy p 190 A93-29106	[SAE PAPER 921381] p 308 A93-41539	[AD-A254645] p 57 N93-12662 TERRESTRIAL PLANETS
Ground operation of the mobile servicing system on	Space Station Condensing Heat Exchanger biofilm formation and control evaluation	Cometary supply of terrestrial organics - Lessons from
Space Station Freedom p 190 A93-29107	[SAE PAPER 921383] p 308 A93-41541	the K/T and the present epoch p 109 A93-17981
Teleprogramming a cooperative space robotic workcell	The Minitron system for growth of small plants under	Terrestrial and extraterrestrial sources of molecular
for Space Station p 190 A93-29109	controlled environment conditions p 358 A93-46471	homochirality p 110 A93-17986
Telerobotic system performance measurement -	Intelligent fault management for the Space Station active	TEST FACILITIES
Motivation and methods p 191 A93-29114 Recent developments at the Goddard Engineering Test	thermal control system p 32 N93-11930	Ground based simulation in test and evaluation education
Bed for force reflecting teleoperation system	Thermal control systems for low-temperature heat rejection on a lunar base	[AIAA PAPER 92-4066] p 24 A93-11252
p 192 A93-29115	[NASA-CR-191286] p 65 N93-13717	Research and development of sensing and manipulation
Safety issues of manipulator systems under computer	Conceptual design of a lunar base thermal control	techniques for space robotics on a testbed
control p 192 A93-29121 A distributed telerobotics system for space operations	system p 68 N93-14003	AIAA PAPER 93-0794 p 136 A93-24873 Recent developments at the Goddard Engineering Test
p 192 A93-29132	Design of a radiator shade for testing in a simulated lunar environment	Bed for force reflecting teleoperation system
Testbed for remote telepresence research	[NASA-CR-192080] p 108 N93-17710	p 192 A93-29115
p 193 A93-29135	Preliminary design of a radiator shading device for a	Testing primates with joystick-based automated
Intelligent virtual interfaces for telerobotics	lunar outpost	apparatus - Lessons from the Language Research Center's
p 193 A93-29136	[NASA-CR-192016] p 139 N93-18019	Computerized Test System p 202 A93-32651 An approach to the functional optimization of the CELSS
Robot free-flyers in space extravehicular activity p 193 A93-29141	Conceptual design of a thermal control system for an	Test Facility
Flight Telerobotic Servicer legacy	inflatable lunar habitat module [NASA-CR-192014] p 140 N93-18113	[SAE PAPER 921199] p 295 A93-41375
[AIAA PAPER 93-1157] p 231 A93-31032	Environmental control and life support system	A simple hindlimb suspension apparatus
An operator interface design for a telerobotic inspection	p 311 N93-27718	p 398 A93-55168
system [AIAA PAPER 93-1160] p 231 A93-31034	Lunar base thermal management/power system	Closed Ecological Life Support Systems (CELSS) Test
Depth cue interaction in telepresence and simulated	analysis and design p 315 N93-27985 Manned lunar surface site p 316 N93-28033	Facility p 233 N93-22628 TEST PILOTS
telemanipulation p 232 A93-33446	TEMPERATURE EFFECTS	Ground based simulation in test and evaluation
Operator vision aids for telerobotic assembly and	Changes in the phospholipid and cholesterol content	education
servicing in space p 262 A93-35530	of rat tissues during adaptation to high altitude at different	[AIAA PAPER 92-4066] p 24 A93-11252
NASA's telerobotics research program p 263 A93-35566	environmental temperatures p 358 A93-47100	The USAF Test Pilot School flight control systems
Visual specification of robot motion	Studies of safety, infectivity, and immunogenicity of a new Temperature Sensitive (TS) 51-1 strain of S. typhi	curriculum
p 348 A93-42845	as a new live oral typhoid fever vaccine candidate	[AIAA PAPER 92-4067] p 24 A93-11253
Kinematics and control of a fully parallel force-reflecting	p 19 N93-11306	Aircrew acceptance of automation in the cockpit p 144 N93-19761
hand controller for manipulator teleoperation	The potential effects of concurrent increases in	TEST STANDS
p 364 A93-45598	temperature, CO2 and O3 on net photosynthesis, as	European involvement in CELSS - Definition of a Closed
Transforming human hand motion for telemanipulation	mediated by rubisCO [DE92-019411] p 5 N93-11630	Ecological Systems Test Bed
p 390 A93-49394	Effects of microclimate cooling on physiology and	[SAE PAPER 921200] p 295 A93-41376
Physical and digital simulations for IVA robotics	performance while flying the UH-60 helicopter simulator	Telescience testbedding for physiological experiments
p 391 A93-49445	in NBC conditions in a controlled heat environment	under hypobaric hypoxic conditions p 220 N93-24398
A procedure for the frequency analysis of telerobotic tasks data p 392 A93-50513	[AD-A258502] p 129 N93-20400	TETHERING Design of a reveable kinglis operay absorber for an
Ground-remote control for space station telerobotics	Lunar base thermal management/power system analysis and design p 315 N93-27985	Design of a reusable kinetic energy absorber for an astronaut safety tether to be used during extravehicular
with time delay	analysis and design p 315 N93-27985 The effects of cockpit heat on aviator sleep	activities on the Space Station
[AAS PAPER 92-052] p 392 A93-50592	parameters p 371 N93-32266	[NASA-CR-192015] p 139 N93-17973
Telerobot control mode performance assessment	TEMPERATURE GRADIENTS	TETHERLINES
[AAS PAPER 92-053] p 392 A93-50593	The values of the skin-temperature gradients and their	Design of a reusable kinetic energy absorber for an
A manipulator control testbed - Implementation and	significance for thermoregulation p 9 A93-12862	astronaut safety tether to be used during extravehicular
applications [AAS PAPER 92-054] p 392 A93-50594	A second postcooling afterdrop - More evidence for a convective mechanism p 44 A93-14969	activities on the Space Station [NASA-CR-192015] p 139 N93-17973
[1010 (M E1) OF 00-1	р ч тоо тоо	, p 100 1100/1/9/3

TETRAZOLES Kinetic tetrazolium microtiter assay INASA-CASE-MSC-21979-11 THEOREMS Two strikes against perfect phylogeny RUU-CS-92-08 | THERAPY The Canadian forces airsickness rehabilitation program. Image enhancement filters significantly improve reading performance for low vision observers Management of trauma and emergency surgery in space Computerized task battery assessment of cognitive and performance effects of acute phenytoin motion sickness therapy Validation of the use of the helium-neon laser in the medical rehabilitation of patients with atrophy Center of Excellence in laser medicine IDE92-0187601 AFRRI reports [AD-A254581] Bright light delivery system INASA-CASE-MFS-28723-11 Automatic detection of seizures with applications Wound healing and connective tissue metabolism: The role of hyperbaric oxygen therapy LAD-A2624831 Pharmacokinetics and Pharmacodynamics in Space NASA-CP-10048) THERMAL ANALYSIS A heat transfer analysis of a mobile vehicle radiation-shielded operator compartment I DE93-0074281

Metabolic responses to simulated extravehicular activity |SAE PAPER 921303| THERMAL DECOMPOSITION Space habitat contaminant growth models. If Kinetics of peptide hydrolysis and amino acid decomposition at high temperature --- space biochemical

THERMAL DEGRADATION

analysis and design

THERMAL COMFORT

Space habitat contaminant growth models. II THERMAL ENERGY Catalytic accretion of thermal heterocomplex molecules from amino acids in aqueous milieu p 354 A93-43793 THERMAL ENVIRONMENTS

evolution

Heat strain during at-sea helicopter operations and the effect of passive microclimate cooling p 7 A93-10330 Predicting increases in skin temperature using heat stress indices and relative humidity in helicopter pilots p 167 A93-28729

Lunar base thermal management/power system

Seasonal effects on human physiological adaptation

factors, thermotolerance and plasma fibronecting

Changes in body fluid compartments during hypohydration and rehydration in heat-acclimated tropical p 251 A93-35496 THERMAL INSULATION

Lunar base thermal management/power system analysis and design p 315 N93-27985 THERMAL PROTECTION

Correlation of results of radiant heat test and convective heat test for three layered protective clothing p 194 N93-21161

THERMAL RADIATION

yrolysis of vegetation by brief intense irradiation p 324 A93-42915

THERMAL RESISTANCE Biophysical model for handwear insulation testing

p 320 N93-28884 LAD-A262926 L THERMAL SHOCK Response of a mouse hybridoma cell line to heat shock

agitation, and sparging p 328 A93-44928 Intracellular proteins produced by mammalian cells in response to environmental stress p 328 A93-44929 THERMAL SIMULATION

Heat stress in protective clothing - Validation of a computer model and the Heat-Humidity Index (HHI) p 88 A93-18040

THERMAL STRESSES

Effects of fatigue and heat stress on vigilance of workers p 177 A93-27173 in protective clothing Cardiovascular responses during recovery from exercise and thermal stress p 212 A93-30282 Thermal stress in US Air Force operations p 51 N93-14027 IAD-A2557851

Physiological stress from chemical defense clothing and equipment

[AD-A255786] The relationship between environmental conditions and UH-60 cockpit temperature p 69 N93-14090

THERMOCHEMISTRY

Oxygen production on the Lunar materials processing p 315 N93-27967

THERMOELECTRICITY

Potential health risks from postulated accidents involving the Pu-238 RTG on the Ulysses solar exploration p 43 A93-13774 mission

THERMONUCLEAR EXPLOSIONS

Pyrolysis of vegetation by brief intense irradiation p 324 A93-42915

THERMOPHILES

p 82 N93-17049

p 157 N93-20848

p 89 A93-18042

p 167 A93-28723

p 167 A93-28734

p 211 A93-30278

p 248 A93-35228

p 22 N93-11445

p 49 N93-12649

o 96 N93-17058

p 254 N93-25592

p 285 N93-28759

p 333 N93-29502

p 264 N93-25318

p 315 N93-27985

p 47 A93-16157

p 282 A93-41468

p 345 A93-42094

p 411 A93-53289

p 345 A93-42094

Modern life at high temperatures --- evolution and taxonomy of extreme-thermophilic bacteria p 74 A93-18003

Structure of a molecular chaperone from a thermophilic p 151 A93-25821 archaebacterium THERMOREGULATION

The values of the skin-temperature gradients and their significance for thermoregulation p 9 A93-12862 Limited heat transfer between thermal compartments during rewarming in vasoconstricted patients

p 88 A93-18036 Thermogenesis induced by inhibition of shivering during cold exposure in exercise-trained rats

p 75 A93-18039 Study of the functioning of the central and the peripheral contours of the thermoregulation system using a thermophysical model of the rabbit body

p 111 A93-23075 Thermoregulatory responses of rhesus monkeys during p 154 A93-28706 spaceflight Predicting increases in skin temperature using heat stress indices and relative humidity in helicopter pilots

p 167 A93-28729
Adjustable temperature level of a physiological ermostat and the feesibate of the physiological ermostation and the physiolo thermostat and the feasibility of its precise maintenance p 324 A93-43036

The efficiency of thermoregulatory responses in the cooling of the organism p 325 A93-43136 Electromyographic patterns of the thermoregulatory

activity of motor units during cooling of the organism p 360 A93-46968 Influence of temperature and metabolic rate on work

performance with Canadian Forces NBC clothing --nuclear, biological, and chemical assault protective p 389 A93-49218 A review of models of the human temperature regulation system

[AD-A258023] p 120 N93-17918 Validation of two temperature pill telemetry systems in

humans during moderate and strenuous exercise [AD-A259068] p 124 N93-19072 Measurement of behavioral thermoregulation

[PB92-217033] p 172 N93-21046 Melatonin, the pineal gland, and circadian rhythms I AD-A2640991 p 337 N93-31061 THERMOSTATS

Adjustable temperature level of a physiological thermostat and the feasibility of its precise maintenance p 324 A93-43036

THIN FILMS

Membrane technology for zero gravity life support ISAE PAPER 9213201 p.304 A93-41482

THIOUREAS

13 C NMR spectra of allosteric effectors of hemoalobin [AD-A262979] p 284 N93-28293

THORAX Windblast tolerance of human thorax and abdomen

THREE DIMENSIONAL BODIES

Two types of occlusion cues for the perception of 3-D p 222 A93-30239 illusory objects in binocular fusion Why do we see three-dimensional objects?

p 91 A93-19992

p 224 N93-23986 IAD-A2598921 THREE DIMENSIONAL MODELS

Computer-assisted three-dimensional reconstruction macular and simulations of vestibular neural p 104 A93-20700 connectivities 3-D target designation using two control devices and an aiding technique --- in fighter cockpits

p 408 A93-53120 Virtual environment display for a 3D audio room p 408 A93-53125 simulation Coordinated action in 3-D space

p 31 N93-10994 I AD-A249830 I

THREE DIMENSIONAL MOTION

Target designation in a perspective view, 3-D map using a joystick, hand tracker, or voice p 186 A93-27145

A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522

THRESHOLDS (PERCEPTION)

Illusions of visual-target motion caused by electrical vestibular stimuli p 119 A93-25653 The influence of military low-altitude flight noise on the inner ear of the guinea pig. I - Hearing threshold measurements p 377 A93-49555 THROMBOSIS

Peripheral arterial thrombosis related to commercial airline İlights - Another manifestation of the economy class syndrome p 215 A93-32775 Fundamental diagnostic hematology: The bleeding and

clotting disorders (second edition) [PB93-188670] p 338 N93-31158

THROTTLING

Evaluation of finger motor reaction in flyer when handling throttle and stick p 29 A93-13539

THROWING

Conceptual design of a fleet of autonomous regolith throwing devices for radiation shielding of lunar habitats [NASA-CR-192078] n 108 N93-17806

THRUST CONTROL Comment on 'Optimum vehicle acceleration profile for

minimum human injury' by C. P. Hatsell p 392 A93-49607 THRUST VECTOR CONTROL

Requirements for pilot assistance in a thrust-vectoring p 320 N93-28870 combat aircraft **THRUSTORS**

Simplified Aid For Crew Rescue (SAFR)

p 313 N93-27793

Protection of Chinese medicine and low frequency magnetic field against suspension induced bone loss in

p 327 A93-44844 Shape optimization of tibial prosthesis components [NASA-CR-191123]

TIME CONSTANT Computer based analysis and synthesis of retinal

p 221 N93-24420 [AD-A260514]

TIME DEPENDENCE

The prediction of the adaptation of circadian rhythms to rapid time zone changes p 278 A93-39714 Relating flying hours to aircrew performance: Evidence for attack and transport missions

LAD-A2539881 p 25 N93-10719 Decision making in a dynamic task environment: The effect of time pressure [AD-A256557]

p 58 N93-14602 A decision-theoretic approach to the display of information for time-critical decisions: The Vista project p 367 N93-32152

Incorporating display limitations in a model-based analysis of flight simulator fidelity [AIAA PAPER 93-0859] p 137 A93-24923

Compensating lags in head-coupled displays using head position prediction and image deflection p 231 A93-31782

Ground-remote control for space station telerobotics

1 AAS PAPER 92-0521 p 392 A93-50592 Integration of advanced teleoperation technologies for control of space robots

TIME MEASUREMENT Time stress measurement devices for enhancement of

onboard bit performance TIME RESPONSE

Analyzing the path of responding in maze-solving and other tasks p 202 A93-32652

TIME SERIES ANALYSIS

Long-range anticorrelations and non-Gaussian behavior of the heartbeat p 161 A93-28049 Adaptive filters for monitoring localized brain activity from surface potential time series (DE93-003795) p 217 N93-22774

TISSUES (BIOLOGY) Study of the whole-body response to vibration: The effect

of repeated exposure to the long-term whole-body vibration. II p 9 A93-11286 Experimental research on the anti-irradiation effects of KW-1 - Protective effect on the 5-HT content of tissues p 3 A93-13542 in irradiated mice Free radical attack - Biological test for human resistance

p 39 A93-17434 canability Altered cell function in microgravity

p 79 A93-20660 Characteristics of the effect of inert gases on in vivo size respiration p 112 A93-23152 tissue respiration The problem of oxygen regimen in extreme conditions p 160 A93-27685 Microgravity and bone adaptation at the tissue level

p 170 A93-28761

TITAN SUBJECT INDEX

Integrated tools for teleoperated satellite repair

27 years armed forces aerospace pathology and

toxicology in the Federal Republic of Germany: Development, current status, trends and challenges

TOOLS

Prevention of space flight induced soft tissue

calcification and disuse osteoporosis

p 409 A93-54845 Mechanisms of the antihypoxic effect of taurine p 126 N93-19696 Significance of histological postmortem findings in pilots killed in military and civil aircraft accidents in Germany p 325 A93-43073 Response characteristics of the human torsional Changes in the intensity of free-radical reactions in the vestibuloocular reflex p 215 A93-32774 organs of rats under hypokinetic stress, protected by the (West): A 25-year-review p 126 N93-19697 Torsional vestibulo-ocular reflex measurements for delta-sleep-inducing peptide and its tyrosine-containing TOXINS AND ANTITOXINS identifying otolith asymmetries possibly related to space p 378 A93-51101 Absence of protective immunity against diphtheria in a arge proportion of young adults p 18 N93-11302 motion sickness susceptibility Method for culturing mammalian cells in a perfused large proportion of young adults [NASA-CR-193304] p 363 N93-32364 bioreactor A core facility for the study of neurotoxins of biological **TORSO** [NASA-CASE-MSC-21293-2] p 4 N93-10109 origin Sudden loading and fatigue effects on the human Method for culturing mammalian cells in a horizontally IAD-A2543591 p 50 N93-12945 rotated bioreactor Immunoconjugates: Magic bullets for cancer therapy? [PB93-167526] p 286 N93-29199 NASA-CASE-MSC-21294-21 p 253 N93-25567 p 5 N93-10110 **TOTAL QUALITY MANAGEMENT** Effects of spaceflight on the proliferation of jejunal Intracellular targeting of the Yersinia YopE cytotoxin in A paradigm shift in Air Force medicine [AD-A258334] p mammalian cells induces actin microfilament disruption [FOA-B-40420-4.4] p 275 N93-27989 mucosal cells p 121 N93-18159 [NASA-CR-191303] p 51 N93-13449 IFOA-B-40420-4.41 TOXIC DISEASES Nerves and tissue repair The AFOSR Workshop on the Future of EEG and Beryllium toxicity - An update p 53 N93-14535 p 104 A93-20779 LAD-A2552991 MEG TOXIC HAZARDS Autoradiographic p 335 N93-30160 distribution and applied LAD-A2643381 Chemical and toxicological pharmacological characteristics of dextromethorphan and assessment TRACE CONTAMINANTS related antitissue/anticonvulsant drugs and novel environmental contaminants in the Lunar-Chemical Biochemically active layers for selective material Analysis Laboratory p 62 A93-17433 analogs detection sensors [AD-A255607] p 54 N93-15009 Beryllium toxicity - An update p 104 A93-20779 | MBB-Z-0440-92-PUB | p 158 N93-20959 High density cell culture system [NASA-CASE-MSC-22060-1] Computerized atmospheric trace contaminant control Potential health effects of fume particles on the crew p 114 N93-19037 simulation for manned spacecraft of spacecrafts | NASA-TM-108409 | Cellular and tissue injury during nonfreezing cold injury p 321 N93-28977 ISAE PAPER 9213871 p 308 A93-41545 and frostbite TRACKING (POSITION) Potential health hazards from thermal degradation [AD-A2605741 p 254 N93-25900 Movement tracking performance as a function of equired force level p 177 A93-27171 events - Particulate vs. gas phase effects Wound healing and connective tissue metabolism: The p 282 A93-41546 required force level ISAE PAPER 9213881 role of hyperbaric oxygen therapy Cardiorespiratory measures of workload during Toxic substances registry system: Index of material p 160 A93-27192 [AD-A262483] p 285 N93-28759 continuous manual performance safety data sheets The chronic effects of jP-8 jet fuel exposure on the Comparative assessment of psychomotor performance p 172 N93-20998 [NASA-TM-108582] lungs [AD-A264162] Monitoring human tissues for toxic substances - Target prediction by humans and macaques (Macaca mulatta) p 204 A93-33035 p 334 N93-30153 p 173 N93-21498 [PB92-223239] TITAN Depth cue interaction in telepresence and simulated Variations in time-to-incapacitation and blood cynanide p 114 N93-18553 telemanipulation Titan values for rats exposed to two hydrogen cyanide gas p 232 A93-33446 TOBACCO Timing considerations of Helmet Mounted Display concentrations Correlation of serum alpha sub 1 antitrypsin with p 233 A93-33449 [DOT/FAA/AM-93/8] p 283 N93-27158 cigarette smoking and pulmonary function status in Greek pilots, for a ten year period p 22 N93-11318 Eye movements and visual information processing [AD-A250198] p 24 N93-10 Evaluation of NO(x)-induced toxicity p 24 N93-10278 p 22 N93-11318 IAD-A261034 I p 283 N93-28122 Smoking status and body composition, exercise, dietary Micro-organisms, cytotoxins **TRADEOFFS** and radioactive intake, and alcohol/caffeine consumption preparation: Risks at rescue operations in hospital Space Biology Initiative. Trade Studies, volume 1 [AD-A250648] p 23 N93-11893 | NASA-CR-190989 | p 207 N93-23068 environment Space biology initiative program definition review. Trade study 5: Modification of existing hardware (COTS) versus Tobacco and health of the pilot [FOA-A-40065-4.5] p 359 N93-32423 [ETN-93-93693] p 217 N93-23414 TOXICITY Survey of smoking habits in the Spanish Air Force new hardware build cost analysis p 207 N93-23069 Cancer risk assessment with intermittent exposure Space Biology Initiative. Trade Studies, volume 2 [NASA-CR-190990] p 208 N93-2 p 370 N93-32262 p 171 A93-28766 p 208 N93-23079 Human performance and physiological function during Variable-Volume Flushing (V-VF) device for water TRAFFIC CONTROL a 24-hr exposure to 1 percent bromotrifluoromethane p 195 N93-22167 A new test of scanning and monitoring ability: Methods conservation in toilets. p 277 A93-39704 TOLERANCES (PHYSIOLOGY) and initial results Absence of protective immunity against diphtheria in a p 18 N93-11302 LAD-A2491231 p 24 N93-10321 The evaluation of tolerance to serious acute hypoxia large proportion of young adults in humans p 11 A93-13715 Clinical and immunological response to vaccination with TRAINING ANALYSIS Training analysis for the European Fighter Aircraft - 'A Methodology for clinical testing of antiradiation means parenteral or oral vaccines in two groups of 30 recruits voyage into the unknown' intended for manned space flight conditions p 98 A93-18769 Advances in training technology and the role of the p 249 A93-35236 Fires on board aircraft: Toxicological risk in flight p 98 A93-18775 New aspects of using hyperbaric oxygenation in aviation p 126 N93-19694 p 252 A93-36742 Questioning mechanisms during complex learning medicine Monitoring human tissues for toxic substances p 173 N93-21498 1AD-A2473821 p 26 N93-11415 Habituation to feline motion sickness [PB92-223239] p 328 A93-44900 The acute inhalation toxicity of pyrolysis products of TRAINING DEVICES European astronaut candidates in training in the CIS Understanding microwaves [ISBN 0-471-57567-4] halon 1301 p 256 A93-34593 p 357 A93-46300 [AD-A2608741 p 254 N93-25629 The human EEG correlates during many-sided peripheral Development of novel models for describing multiple Control of the development of occupationally important qualities with the aim of improving flight-personnel exposure to an alternating magnetic field toxicity effects p 363 A93-46966 p 257 A93-35249 IAD-A2644391 p 336 N93-30422 Salivary total protein and experimental Coriolis TOXICITY AND SAFETY HAZARD The European astronauts training programme p 383 A93-49573 p 226 N93-24346 sickness Setting Spacecraft Maximum Allowable Concentrations TRAINING EVALUATION Analysis of individual differences between psychological for 1 hour or 24 hour contingency exposures to airborne Visual display aid for orbital maneuvering - Experimental reactions of humans under combined hypoxic stress p 136 A93-23519 ISAF PAPER 9214101 p 388 A93-51115 p 310 A93-41564 The realities of using visually coupled systems for training Control of infection in an international airline Prediction of motion sickness susceptibility p 407 A93-52867 p 228 A93-30063 applications p 403 A93-55940 Analyzing the path of responding in maze-solving and Toxic substances registry system: Index of material Effects of dextromethamphetamine on subjective p 202 A93-32652 other tasks safety data sheets fatigue Control of the development of occupationally important p 172 N93-20998 [NASA-TM-108582] (AD-A2582521 p 119 N93-17822 qualities with the aim of improving flight-personnel Monitoring human tissues for toxic substances Stress resistance as a diagnostic category in air traffic p 173 N93-21498 training p 257 A93-35249 controller selection Increasing hits and reducing misses in CRM/LOS Variations in time-to-incapacitation and blood cynanide [DLR-FB-92-13] p 219 N93-24092 - Guidelines for simulator scenario t p 286 A93-39575 values for rats exposed to two hydrogen cyanide gas TOLUENE development concentrations Anaerobic microbial transformation of aromatic Future military pilot training - A perspective of industry [DOT/FAA/AM-93/8] n 283 N93-27158 hydrocarbons and mixtures of aromatic hydrocarbons and p 404 A93-52689 [AIAA PAPER 93-3601] p 404 A93-52689 An evaluation of crew coordination and performance TOXICOLOGY halogenated solvents Toxicokinetics of inhaled bromotrifluoromethane (Halon [AD-A255696] p 42 N93-14557 during a simulated UH-60 helicopter mission p 278 A93-39705 1301) in human subjects p 35 N93-12509 **TOMATOES** [AD-A254984] ECLSS medical support activities Training high performance skills using above real-time Final results of space exposed experiment developed [NASA-CR-184429] p 23 N93-12427 p 329 N93-29702 JPRS report: Science and technology. Central Eurasia: [NASA-CR-192616] p 225 N93-24192 **TOMOGRAPHY** Life sciences Contribution of personality to the prediction of success p 40 N93-13033 Cognition in the brain: Investigations using positron IJPRS-ULS-92-0241 Enhancement of drug detection and identification by use if various derivatizing reagents on GC-FTIR analysis in initial air traffic control specialist training emission tomography IDOT/FAA/AM-93/41 p 259 N93-26138 p 14 N93-10765 [AD-A254280] Effect of cytoskeletal reagents on stretch activated ion [AD-A255582] p 95 N93-16041 The air traffic controller's mental model and it's Toxicological investigations of flight accidetns: Findings implications for equipment design and trainee selection

p 126 N93-19695

p 341 N93-30322

channels

[AD-A261089]

p 245 N93-25764

Training effectiveness assessment: Methodological	TRANSPIRATION	TUNDRA
problems and issues p 342 N93-30684	Plant canopy transpiration in bioregenerative life support	Methane transport mechanisms and isotopic
TRAINING SIMULATORS Examination of the relationship between changes in the	systems - The link between mechanistic and empirical models	fractionation in emergent macrophytes of an Alaskan tundra take p 38 A93-16544
demand for civil aviation services and the volume of flight	[SAE PAPER 921355] p 306 A93-41514	TURBINE ENGINES
simulator training p 98 A93-18773	TRANSPLANTATION Control and circadian behavior by transplanted	Human factors applications in control systems design
Visual augmentation and scene detail effects in flight training p 180 A93-27454	suprachiasmatic nuclei	for ground testing of turbine engines p 409 A93-54410
The development and use of a generic nonnormal	[AD-A264553] p 335 N93-30382	TURBOGENERATORS
checklist with applications in ab initio and Introductory	TRANSPORT AIRCRAFT Human factors in the 'glass cockpit'	Lunar base thermal management/power system
Advanced Qualification Programs p 180 A93-27456	p 27 A93-11202	analysis and design p 315 N93-27985
A teleoperation training simulator with visual and kinesthetic force virtual reality p 233 A93-33448	High-speed civil transport - Advanced flight deck	TWO PHASE FLOW Zero gravity phase separator technologies - Past,
Flight director information and pilot performance in	challenges	present and future
instrument approaches	[AIAA PAPER 92-4231] p 28 A93-13357 On cockpit (crew) resource management	SAE PAPER 921160 p 293 A93-41342
[AD-A258186] p 131 N93-17857	p 223 A93-31490	Two phase fluid management for hydroponics [SAE PAPER 921163] p 294 A93-41345
TRAJECTORY ANALYSIS Temporal Frequency Spectrum for describing and	Information management problems and their influence	Effects of air bubble contamination in recirculating water
modeling motion perception p 232 A93-33250	on cockpit equipment architecture of transport aircraft p 223 A93-31491	loop
TRAJECTORY CONTROL	An exploratory study of plan-view terrain displays for	SAE PAPER 921282 p 302 A93-41450 TYPHOID
Fusing human and machine skills for remote robotic	air carrier operations p 289 A93-39573	Immunization of personnel traveling to a destination in
operations p 137 A93-24994 Timing considerations of Helmet Mounted Display	Toward a flight deck automation philosophy for the Boeing High Speed Civil Transport	tropical countries: French position p 19 N93-11304
performance p 233 A93-33449	[SAE PAPER 921133] p 291 A93-41321	Clinical and immunological response to vaccination with parenteral or oral vaccines in two groups of 30 recruits
Theoretical and experimental studies for continuous path	A method for predicting the work load of a flight engineer	p 19 N93-11305
control of flexible manipulator mounted on a free-flying	engaged in counteracting failures of functional systems of a transport aircraft p 364 A93-45688	Studies of safety, infectivity, and immunogenicity of a
space robot [AIAA PAPER 93-3863] p 392 A93-51449	Relating flying hours to aircrew performance: Evidence	new Temperature Sensitive (TS) 51-1 strain of S. typhi as a new live oral typhoid fever vaccine candidate
Symbology for head up and head down applications for	for attack and transport missions	p 19 N93-11306
highly agile fighter aircraft: To improve spatial awareness,	[AD-A253988] p 25 N93-10719	TYROSINE
trajectory control, and unusual attitude recovery, part 1 p 318 N93-28857	A study of illness related lost time in transport aircraft crewmembers	Dopamine release in rat striatum - Physiological coupling to tyrosine supply p 152 A93-27050
TRAJECTORY OPTIMIZATION	[AD-A258193] p 132 N93-18298	Effects of systemic L-tyrosine on dopamine release from
Optimal manipulator trajectories for space robots	TRANSPORT PROPERTIES	rat corpus striatum and nucleus accumbens
[AAS PAPER 91-669] p 410 A93-55838	Ion transport across membranes under exposure of the organism to ionizing radiation Russian book	p 201 A93-32118 Relationship between pituitary ACTH content and
Operator-assisted planning and execution of proximity operations subject to operational constraints	[ISBN 5-12-001601-4] p 243 A93-35679	hypothalamic catecholamines in the rat
p 194 N93-21436	Application of RADTRAN to estimation of doses to	p 203 A93-33028
TRAJECTORY PLANNING	persons in enclosed spaces	Tyrosine - Effects on catecholamine release p 204 A93-33038
Space based robot manipulators - Dynamics of contact and trajectory planning for impact minimization	[DE93-000758] p 97 N93-17230 TRANSPORTATION	P 20
p 135 A93-22827	Flight physiology - Clinical considerations	U
Visual display aid for orbital maneuvering - Design	p 164 A93-28690	•
considerations p 135 A93-23518	TREADMILLS	U.S.S.R.
Visual display aid for orbital maneuvering - Experimental evaluation p 136 A93-23519	Influence of viscous resistance on heart rate and oxygen uptake during treadmill walking in water	Digest of Russian Space Life Sciences, issue 33 [NASA-CR-3922(39)] p 244 N93-25195
Motion planning of a dual-arm free-floating manipulator	p 94 A93-20898	UH-60A HELICOPTER
116 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		The state of the s
with inertially fixed base	Two techniques for measuring locomotion impact forces	The relationship between environmental conditions and
[AIAA PAPER 93-3864] p 393 A93-51450	during zero G	UH-60 cockpit temperature
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer	during zero G [NASA-TP-3305] p 217 N93-23410 TRES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS
[AIAA PAPER 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANOUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENDS	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENDS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females,	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583 TRANSFER OF TRAINING Transfer effects of scene content and crosswind in	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENDS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 ULTRAVIOLET RADIATION The role of ultraviolet radiation and vitamin-D metabolism
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583 TRANSFER OF TRAINING Transfer effects of scene content and crosswind in landing instruction p 62 A93-15665	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENDS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-8-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 ULTRAVIOLET RADIATION The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216
[AIAA PAPER 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583 TRANSFER OF TRAINING Transfer effects of scene content and crosswind in landing instruction p 62 A93-15665 Contextual change and skill acquisition in visual search	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENDS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 ULTRAVIOLET RADIATION The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 Chloroflexus aurantiacus and ultraviolet radiation -
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583 TRANSFER OF TRAINING Transfer effects of scene content and crosswind in landing instruction p 62 A93-15665 Contextual change and skill acquisition in visual search Does the rate of change affect performance? p 178 A93-27187	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENOS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 TRITIUM Application of RADTRAN to estimation of doses to persons in enclosed spaces	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-8-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 ULTRAVIOLET RADIATION The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 Chloroflexus aurantiacus and ultraviolet radiation - Implications for Archean shallow-water stromatolites
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583 TRANSFER OF TRAINING Transfer effects of scene content and crosswind in landing instruction p 62 A93-15665 Contextual change and skill acquisition in visual search. Does the rate of change affect performance? p 178 A93-27187 Automatic information processing and high performance	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENDS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 TRITIUM Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 ULTRAVIOLET RADIATION The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 Chloroflexus aurantiacus and ultraviolet radiation Implications for Archean shallow-water stromatolites p 400 A93-55999 Ultraviolet disinfection technology assessment
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583 TRANSFER OF TRAINING Transfer effects of scene content and crosswind in landing instruction p 62 A93-15665 Contextual change and skill acquisition in visual search - Does the rate of change affect performance? p 178 A93-27187 Automatic information processing and high performance skills	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENOS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 TRITIUM Application of RADTRAN to estimation of doses to persons in enclosed spaces	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 ULTRAVIOLET RADIATION The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 Chloroflexus aurantiacus and ultraviolet radiation - Implications for Archean shallow-water stromatolites p 400 A93-55999 Ultraviolet disinfection technology assessment [PB92-222868] p 64 N93-12983
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583 TRANSFER OF TRAINING Transfer effects of scene content and crosswind in landing instruction p 62 A93-15665 Contextual change and skill acquisition in visual search poses the rate of change affect performance? P 178 A93-27187 Automatic information processing and high performance skills [AD-A258473] p 132 N93-18273 TRANSISTOR AMPLIFIERS	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENDS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 TRITIUM Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230 TROPICAL REGIONS Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 ULTRAVIOLET RADIATION The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 Chloroflexus aurantiacus and ultraviolet radiation Implications for Archean shallow-water stromatolites p 400 A93-55999 Ultraviolet disinfection technology assessment [PB92-222868] p 64 N93-12983 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583 TRANSFER OF TRAINING Transter effects of scene content and crosswind in landing instruction p 62 A93-15665 Contextual change and skill acquisition in visual search Does the rate of change affect performance? P 178 A93-27187 Automatic information processing and high performance skills [AD-A258473] TRANSISTOR AMPLIFIERS Wide-bandwidth high-resolution search for	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENDS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 TRITIUM Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230 TROPICAL REGIONS Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304 TRYPTOPHAN	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 ULTRAVIOLET RADIATION The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 Chloroflexus aurantiacus and ultraviolet radiation - Implications for Archean shallow-water stromatolites p 400 A93-55999 Ultraviolet disinfection technology assessment [PB92-222868] AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 on spores of
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583 TRANSFER OF TRAINING Transfer effects of scene content and crosswind in landing instruction Contextual change and skill acquisition in visual search Does the rate of change affect performance? p 178 A93-27187 Automatic information processing and high performance skills [AD-A258473] p 132 N93-18273 TRANSISTOR AMPLIFIERS Wide-bandwidth high-resolution search for extraterrestrial intelligence	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENDS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 TRITIUM Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230 TROPICAL REGIONS Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304 TRYPTOPHAN Tryptophan availability modulates serotonin release from	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-8-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 ULTRAVIOLET RADIATION The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 Chloroflexus aurantiacus and ultraviolet radiation - Implications for Archean shallow-water stromatofites p 400 A93-55999 Ultraviolet disinfection technology assessment [PB92-222868] p 64 N93-12983 AFRRI Reports Radiobiology [AD-A2572311] p 80 N93-15965 Photobiological investigations on spores of streptomyces griseus
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583 TRANSFER OF TRAINING Transfer effects of scene content and crosswind in landing instruction p 62 A93-15665 Contextual change and skill acquisition in visual search. Does the rate of change affect performance? p 178 A93-27187 Automatic information processing and high performance skills [AD-A258473] p 132 N93-18273 TRANSISTOR AMPLIFIERS Wide-bandwidth high-resolution search for extraterrestrial intelligence [NASA-CR-191618] p 110 N93-15825	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENDS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 TRITIUM Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230 TROPICAL REGIONS Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304 TRYPTOPHAN	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 ULTRAVIOLET RADIATION The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 Chloroflexus aurantiacus and ultraviolet radiation - Implications for Archean shallow-water stromatolites p 400 A93-55999 Ultraviolet disinfection technology assessment [PB92-222868] p 400 A93-15965 Photobiological investigations streptomyces griseus [ESA-TT-1269] p 277 N93-29274 ULYSSES MISSION
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583 TRANSFER OF TRAINING Transfer effects of scene content and crosswind in landing instruction p 62 A93-15665 Contextual change and skill acquisition in visual search Does the rate of change affect performance? Automatic information processing and high performance skills [AD-A258473] p 132 N93-18273 TRANSISTOR AMPLIFIERS Wide-bandwidth high-resolution search for extraterrestrial intelligence [NASA-CR-191618] p 110 N93-15825 TRANSLATIONAL MOTION Development and implementation of the MotoMir	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENDS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 TRITIUM Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230 TROPICAL REGIONS Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304 TRYPTOPHAN Tryptophan availability modulates serotonin release from rat hypothatamic slices p 152 A93-27000 Serotonin release varies with brain tryptophan levels p 201 A93-32119	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-8-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 ULTRAVIOLET RADIATION The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 Chloroflexus aurantiacus and ultraviolet radiation Implications for Archean shallow-water stromatolites p 400 A93-55999 Ultraviolet disinfection technology assessment [PB92-222868] p 64 N93-12983' AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Photobiological investigations on spores of streptomyces griseus [ESA-TT-1269] p 277 N93-29274 ULYSSES MISSION Potential health risks from postulated accidents involving
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583 TRANSFER OF TRAINING Transfer effects of scene content and crosswind in landing instruction p 62 A93-15665 Contextual change and skill acquisition in visual search Does the rate of change affect performance? p 178 A93-27187 Automatic information processing and high performance skills AD-A258473 p 132 N93-18273 TRANSISTOR AMPLIFIERS Wide-bandwidth high-resolution search for extraterrestrial intelligence [NASA-CR-191618] p 110 N93-15825 TRANSLATIONAL MOTION Development and implementation of the MotoMir experiment on the Mir Space Station	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENDS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 TRITIUM Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230 TROPICAL REGIONS Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304 TRYPTOPHAN Tryptophan availability modulates serotonin release from rat hypothatamic slices p 152 A93-27000 Serotonin release varies with brain tryptophan levels p 201 A93-32119 TUBERCULOSIS	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 ULTRAVIOLET RADIATION The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 Chloroflexus aurantiacus and ultraviolet radiation - Implications for Archean shallow-water stromatolites p 400 A93-55999 Ultraviolet disinfection technology assessment [PB92-222868] p 400 A93-15965 Photobiological investigations streptomyces griseus [ESA-TT-1269] p 277 N93-29274 ULYSSES MISSION
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583 TRANSFER OF TRAINING Transfer effects of scene content and crosswind in landing instruction p 62 A93-15665 Contextual change and skill acquisition in visual search Does the rate of change affect performance? Automatic information processing and high performance skills [AD-A258473] p 132 N93-18273 TRANSISTOR AMPLIFIERS Wide-bandwidth high-resolution search for extraterrestrial intelligence [NASA-CR-191618] p 110 N93-15825 TRANSLATIONAL MOTION Development and implementation of the MotoMir experiment on the Mir Space Station p 220 N93-24363 A demonstration of motion base design alternatives for	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENDS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 TRITIUM Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230 TROPICAL REGIONS Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304 TRYPTOPHAN Tryptophan availability modulates serotonin release from rat hypothatamic slices p 152 A93-27000 Serotonin release varies with brain tryptophan levels p 201 A93-32119	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 ULTRAVIOLET ADDIATION The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 Chloroflexus aurantiacus and ultraviolet radiation Implications for Archean shallow-water stromatolites [PB92-222868] p 240 A93-55999 Ultraviolet disinfection technology assessment [PB92-222868] p 64 N93-12983 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Photobiological investigations on spores of streptomyces griseus [ESA-TT-1269] p 277 N93-29274 ULYSSES MISSION Potential health risks from postulated accidents involving the Pu-238 RTG on the Ulysses solar exploration mission p 43 A93-13774
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583 TRANSFER OF TRAINING Transfer effects of scene content and crosswind in landing instruction p 62 A93-15665 Contextual change and skill acquisition in visual search Does the rate of change affect performance? p 178 A93-27187 Automatic information processing and high performance skills AD-A258473 p 132 N93-18273 TRANSISTOR AMPLIFIERS Wide-bandwidth high-resolution search for extraterrestrial intelligence [NASA-CR-191618] p 110 N93-15825 TRANSLATIONAL MOTION Development and implementation of the MotoMir experiment on the Mir Space Station p 220 N93-24363 A demonstration of motion base design alternatives for the National Advanced Driving Simulator	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENDS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 TRITIUM Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230 TROPICAL REGIONS Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304 TRYPTOPHAN Tryptophan availability modulates serotonin release from rat hypothalamic slices p 152 A93-27000 Serotonin release varies with brain tryptophan levels p 201 A93-32119 TUBERCULOSIS Immunological parameters in current and former US Air Force personnel p 16 N93-11295 Communicable diseases: A major burden of morbidity	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 ULTRAVIOLET RADIATION The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 Chloroflexus aurantiacus and ultraviolet radiation - Implications for Archean shallow-water stromatofites p 400 A93-55999 Ultraviolet disinfection technology assessment [PB92-222868] p 64 N93-12983 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 On spores of streptomyces griseus [ESA-TT-1269] p 277 N93-29274 ULYSSES MISSION Potential health risks from postulated accidents involving the Pu-238 RTG on the Ulysses solar exploration mission p 43 A93-13774 UNCONSCIOUSNESS Unconsciousness in flight and its prevention
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583 TRANSFER OF TRAINING Transfer effects of scene content and crosswind in landing instruction p 62 A93-15665 Contextual change and skill acquisition in visual search Does the rate of change affect performance? Automatic information processing and high performance skills [AD-A258473] p 132 N93-18273 TRANSISTOR AMPLIFIERS Wide-bandwidth high-resolution search for extraterrestrial intelligence [NASA-CR-191618] p 110 N93-15825 TRANSLATIONAL MOTION Development and implementation of the MotoMir experiment on the Mir Space Station p 220 N93-24363 A demonstration of motion base design alternatives for	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENDS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 TRITIUM Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230 TROPICAL REGIONS Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304 TRYPTOPHAN Tryptophan availability modulates serotonin release from rat hypothatamic slices p 152 A93-27000 Serotonin release varies with brain tryptophan levels p 201 A93-32119 TUBERCULOSIS Immunological parameters in current and former US Air Force personnel Communicable diseases: A major burden of morbidity and mortality p 18 N93-11300	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 ULTRAVIOLET ADDIATION The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 Chloroflexus aurantiacus and ultraviolet radiation Implications for Archean shallow-water stromatolites [PB92-222868] p 240 A93-55999 Ultraviolet disinfection technology assessment [PB92-222868] p 64 N93-12983 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Photobiological investigations on spores of streptomyces griseus [ESA-TT-1269] p 277 N93-29274 ULYSSES MISSION Potential health risks from postulated accidents involving the Pu-238 RTG on the Ulysses solar exploration mission p 43 A93-13774
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583 TRANSFER OF TRAINING Transfer effects of scene content and crosswind in landing instruction p 62 A93-15665 Contextual change and skill acquisition in visual search - Does the rate of change affect performance? p 178 A93-27187 Automatic information processing and high performance skills [AD-A258473] p 132 N93-18273 TRANSISTOR AMPLIFIERS Wide-bandwidth high-resolution search for extraterrestrial intelligence [NASA-CR-191618] p 110 N93-15825 TRANSLATIONAL MOTION Development and implementation of the MotoMir experiment on the Mir Space Station p 220 N93-24363 A demonstration of motion base design alternatives for the National Advanced Driving Simulator [NASA-TM-103881] p 236 N93-24490 TRANSMISSION LINES Joint HVAC transmission EMF environmental study	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENDS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 TRITIUM Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230 TROPICAL REGIONS Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304 TRYPTOPHAN Tryptophan availability modulates serotonin release from rat hypothatamic slices p 152 A93-27000 Serotonin release varies with brain tryptophan levels p 201 A93-32119 TUBERCULOSIS Immunological parameters in current and former US Air Force personnel p 16 N93-11295 Communicable diseases: A major burden of morbidity and mortality p 18 N93-11300 Rapid susceptibility testing of mycobacterium avium	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 ULTRAVIOLET RADIATION The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 Chloroflexus aurantiacus and ultraviolet radiation - Implications for Archean shallow-water stromatolites p 400 A93-55999 Ultraviolet disinfection technology assessment [PB92-222868] p 64 N93-12983 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Photobiological investigations on spores of streptomyces griseus [ESA-TT-1269] p 277 N93-29274 ULYSSES MISSION Potential health risks from postulated accidents involving the Pu-238 RTG on the Ulysses solar exploration mission p 43 A93-13774 UNCONSCIOUSNESS Unconsciousness in flight and its prevention p 217 A93-32787 Acceleration-induced effects on baboon blood chemistry p 376 A93-49224
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583 TRANSFER OF TRAINING Transter effects of scene content and crosswind in landing instruction p 62 A93-15665 Contextual change and skill acquisition in visual search - Does the rate of change affect performance? p 178 A93-27187 Automatic information processing and high performance skills AD-A258473 p 132 N93-18273 TRANSISTOR AMPLIFIERS Wide-bandwidth high-resolution search for extraterrestrial intelligence [NASA-CR-191618] p 110 N93-15825 TRANSLATIONAL MOTION Development and implementation of the MotoMir experiment on the Mir Space Station p 220 N93-24363 A demonstration of motion base design alternatives for the National Advanced Driving Simulator (NASA-TM-103881) p 236 N93-24490 TRANSISSION LINES Joint HVAC transmission EMF environmental study (DE92-017863) p 43 N93-15211	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENDS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 TRITIUM Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230 TROPICAL REGIONS Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304 TRYPTOPHAN Tryptophan availability modulates serotonin release from rat hypothatamic slices p 152 A93-27000 Serotonin release varies with brain tryptophan levels p 201 A93-32119 TUBERCULOSIS Immunological parameters in current and former US Air Force personnel Communicable diseases: A major burden of morbidity and mortality p 18 N93-11300	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 ULTRAVIOLET RADIATION The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 Chloroflexus aurantiacus and ultraviolet radiation implications for Archean shallow-water stromatolites p 400 A93-55999 Ultraviolet disinfection technology assessment [PB92-222868] p 64 N93-12983 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Photobiological investigations on spores of streptomyces griseus [ESA-TT-1269] p 277 N93-29274 ULYSSES MISSION Potential health risks from postulated accidents involving the Pu-238 RTG on the Ulysses solar exploration mission p 43 A93-13774 UNCONSCIOUSNESS Unconsciousness in flight and its prevention p 217 A93-32787 Acceleration-induced effects on baboon blood chemistry Statistical analysis of the human strangulation
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583 TRANSFER OF TRAINING Transfer effects of scene content and crosswind in landing instruction p 62 A93-15665 Contextual change and skill acquisition in visual search - Does the rate of change affect performance? p 178 A93-27187 Automatic information processing and high performance skills [AD-A258473] p 132 N93-18273 TRANSISTOR AMPLIFIERS Wide-bandwidth high-resolution search for extraterrestrial intelligence [NASA-CR-191618] p 110 N93-15825 TRANSLATIONAL MOTION Development and implementation of the MotoMir experiment on the Mir Space Station p 220 N93-24363 A demonstration of motion base design alternatives for the National Advanced Driving Simulator [NASA-TM-103881] p 236 N93-24490 TRANSMISSION LINES Joint HVAC transmission EMF environmental study	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENDS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 TRITIUM Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230 TROPICAL REGIONS Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304 TRYPTOPHAN Tryptophan availability modulates serotonin release from rat hypothatamic slices p 152 A93-27000 Serotonin release varies with brain tryptophan levels p 201 A93-32119 TUBERCULOSIS Immunological parameters in current and former US Air Force personnel p 16 N93-11295 Communicable diseases: A major burden of morbidity and mortality p 18 N93-11300 Rapid susceptibility testing of mycobacterium avium complex and mycobacterium tuberculosis isolated from AIDS patients [NASA-CR-192382] p 172 N93-20736	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 ULTRAVIOLET RADIATION The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 Chloroflexus aurantiacus and ultraviolet radiation - Implications for Archean shallow-water stromatolites p 400 A93-55999 Ultraviolet disinfection technology assessment [PB92-222868] p 64 N93-12983 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Photobiological investigations on spores of streptomyces griseus [ESA-TT-1269] p 277 N93-29274 ULYSSES MISSION Potential health risks from postulated accidents involving the Pu-238 RTG on the Ulysses solar exploration mission p 43 A93-13774 UNCONSCIOUSNESS Unconsciousness in flight and its prevention p 217 A93-32787 Acceleration-induced effects on baboon blood chemistry p 376 A93-49224
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583 TRANSFER OF TRAINING Transter effects of scene content and crosswind in landing instruction p 62 A93-15665 Contextual change and skill acquisition in visual search - Does the rate of change affect performance? P 178 A93-27187 Automatic information processing and high performance skills [AD-A258473] p 132 N93-18273 TRANSISTOR AMPLIFIERS Wide-bandwidth high-resolution search for extraterrestrial intelligence [NASA-CR-191618] p 110 N93-15825 TRANSLATIONAL MOTION Development and implementation of the MotoMir experiment on the Mir Space Station p 220 N93-24363 A demonstration of motion base design alternatives for the National Advanced Driving Simulator (NASA-TM-103881) p 236 N93-24490 TRANSISSION LINES Joint HVAC transmission EMF environmental study [DE92-017863] p 43 N93-15211 TRANSMITTERS Biophysical and biochemical mechanisms in synaptic transmitter release	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENDS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 TRITIUM Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230 TROPICAL REGIONS Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304 TRYPTOPHAN Tryptophan availability modulates serotonin release from rat hypothatamic slices p 152 A93-27000 Serotonin release varies with brain tryptophan levels p 201 A93-32119 TUBERCULOSIS Immunological parameters in current and former US Air Force personnel p 16 N93-11295 Communicable diseases: A major burden of morbidity and mortality p 18 N93-11300 Rapid susceptibility testing of mycobacterium avium complex and mycobacterium tuberculosis isolated from AIDS patients [NASA-CR-192382] p 172 N93-20736	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-8-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 ULTRAVIOLET RADIATION The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 Chloroflexus aurantiacus and ultraviolet radiation implications for Archean shallow-water stromatolites p 400 A93-55999 Ultraviolet disinfection technology assessment [PB92-222868] p 64 N93-12983 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Photobiological investigations on spores of streptomyces griseus [ESA-TT-1269] p 277 N93-29274 ULYSSES MISSION Potential health risks from postulated accidents involving the Pu-238 RTG on the Ulysses solar exploration mission p 43 A93-13774 UNCONSCIOUSNESS Unconsciousness in flight and its prevention
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583 TRANSFER OF TRAINING Transfer effects of scene content and crosswind in landing instruction p 62 A93-15665 Contextual change and skill acquisition in visual search Does the rate of change affect performance? Automatic information processing and high performance skills [AD-A258473] p 132 N93-18273 TRANSISTOR AMPLIFIERS Wide-bandwidth high-resolution search for extraterrestrial intelligence [NASA-CR-191618] p 110 N93-15825 TRANSLATIONAL MOTION Development and implementation of the MotoMir experiment on the Mir Space Station	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENDS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 TRITIUM Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230 TROPICAL REGIONS Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304 TRYPTOPHAN Tryptophan availability modulates serotonin release from rat hypothatamic slices p 152 A93-27000 Serotonin release varies with brain tryptophan levels p 201 A93-32119 TUBERCULOSIS Immunological parameters in current and former US Air Force personnel p 16 N93-11295 Communicable diseases: A major burden of morbidity and mortality p 18 N93-11300 Rapid susceptibility testing of mycobacterium avium complex and mycobacterium tuberculosis isolated from AIDS patients [NASA-CR-192382] p 172 N93-20736	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 ULTRAVIOLET ADIATION The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 Chloroflexus aurantiacus and ultraviolet radiation Implications for Archean shallow-water stromatolites Ultraviolet disinfection technology assessment [PB92-222868] p 64 N93-15965 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Photobiological investigations on spores of streptomyces griseus [ESA-TT-1269] p 277 N93-29274 ULYSSES MISSION Potential health risks from postulated accidents involving the Pu-238 RTG on the Ulysses solar exploration mission p 43 A93-13774 UNCONSCIOUSNESS Unconsciousness in flight and its prevention UNCONSCIOUSNESS Unconsciousness in flight and its prevention p 217 A93-32787 Acceleration-induced effects on baboon blood chemistry p 376 A93-49224 Statistical analysis of the human strangulation experiments: Comparison to +Gz-induced loss of consciousness AD-A255485 p 54 N93-14789
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583 TRANSFER OF TRAINING Transter effects of scene content and crosswind in landing instruction p 62 A93-15665 Contextual change and skill acquisition in visual search - Does the rate of change affect performance? P 178 A93-27187 Automatic information processing and high performance skills [AD-A258473] p 132 N93-18273 TRANSISTOR AMPLIFIERS Wide-bandwidth high-resolution search for extraterrestrial intelligence [NASA-CR-191618] p 110 N93-15825 TRANSLATIONAL MOTION Development and implementation of the MotoMir experiment on the Mir Space Station p 220 N93-24363 A demonstration of motion base design alternatives for the National Advanced Driving Simulator (NASA-TM-103881) p 236 N93-24490 TRANSISSION LINES Joint HVAC transmission EMF environmental study [DE92-017863] p 43 N93-15211 TRANSMITTERS Biophysical and biochemical mechanisms in synaptic transmitter release	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENDS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 TRITIUM Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230 TROPICAL REGIONS Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304 TRYPTOPHAN Tryptophan availability modulates serotonin release from rat hypothatamic slices p 152 A93-27000 Serotonin release varies with brain tryptophan levels p 201 A93-32119 TUBERCULOSIS Immunological parameters in current and former US Air Force personnel p 16 N93-11295 Communicable diseases: A major burden of morbidity and mortality p 18 N93-11300 Rapid susceptibility testing of mycobacterium avium complex and mycobacterium tuberculosis isolated from AIDS patients [NASA-CR-192382] p 172 N93-20736 TUMBLING MOTION TALON and CRADLE: Systems for the rescue of	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-8-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 ULTRAVIOLET RADIATION The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 Chloroflexus aurantiacus and ultraviolet radiation implications for Archean shallow-water stromatolites p 400 A93-55999 Ultraviolet disinfection technology assessment [PB92-222868] p 64 N93-12983 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Photobiological investigations on spores of streptomyces griseus [ESA-TT-1269] p 277 N93-29274 ULYSSES MISSION Potential health risks from postulated accidents involving the Pu-238 RTG on the Ulysses solar exploration mission p 43 A93-13774 UNCONSCIOUSNESS Unconsciousness in flight and its prevention
[AIAA PAPÉR 93-3864] TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583 TRANSFER OF TRAINING Transfer effects of scene content and crosswind in landing instruction p 62 A93-15665 Contextual change and skill acquisition in visual search Does the rate of change affect performance? Automatic information processing and high performance skills [AD-A258473] p 132 N93-18273 TRANSISTOR AMPLIFIERS Wide-Dandwidth high-resolution search for extraterrestrial intelligence [NASA-CR-191618] p 110 N93-15825 TRANSLATIONAL MOTION Development and implementation of the MotoMir experiment on the Mir Space Station p 220 N93-24363 A demonstration of motion base design alternatives for the National Advanced Driving Simulator (NASA-TM-103881) p 236 N93-24490 TRANSMISSION LINES Joint HVAC transmission EMF environmental study (DE92-017863) TRANSMITTERS Biophysical and biochemical mechanisms in synaptic transmitter release [AD-A264829] p 336 N93-30613	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENDS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 TRITIUM Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230 TROPICAL REGIONS Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304 TRYPTOPHAN Tryptophan availability modulates serotonin release from rat hypothatamic slices p 152 A93-27000 Serotonin release varies with brain tryptophan levels p 201 A93-32119 TUBERCULOSIS Immunological parameters in current and former US Air Force personnel p 16 N93-11295 Communicable diseases: A major burden of morbidity and mortality p 18 N93-11300 Rapid susceptibility testing of mycobacterium avium complex and mycobacterium tuberculosis isolated from AIDS patients INASA-CR-192382] p 172 N93-20736 TUMORS Measuring the metastatic potential of cancer cells	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 ULTRAVIOLET ADIATION The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 Chloroflexus aurantiacus and ultraviolet radiation - Implications for Archean shallow-water stromatolites Ultraviolet disinfection technology assessment [PB92-222868] p 64 N93-15965 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Photobiological investigations on spores of streptomyces griseus [ESA-TT-1269] p 277 N93-29274 ULYSSES MISSION Potential health risks from postulated accidents involving the Pu-238 RTG on the Ulysses solar exploration mission p 43 A93-13774 UNCONSCIOUSNESS Unconsciousness in flight and its prevention p 217 A93-32787 Acceleration-induced effects on baboon blood chemistry p 376 A93-49224 Statistical analysis of the human strangulation experiments: Comparison to +Gz-induced loss of consciousness AD-A255485 p 54 N93-14789 UNDERGROUND STRUCTURES Human safety in the lunar environment p 105 N93-16867 Evolving concepts of lunar architecture: The potential
[AIAA PAPÉR 93-3864] p 393 A93-51450 TRANQUILIZERS Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress p 253 A93-36745 TRANSDUCERS Development of a tactile perceived attitude transducer [AD-A253724] p 25 N93-11081 Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-17087 TRANSFER FUNCTIONS Perceptual effects of synthetic reverberation on three-dimensional audio systems p 257 A93-36583 TRANSFER OF TRAINING Transter effects of scene content and crosswind in landing instruction p 62 A93-15665 Contextual change and skill acquisition in visual search - Does the rate of change affect performance? P 178 A93-27187 Automatic information processing and high performance skills [AD-A258473] p 132 N93-18273 TRANSISTOR AMPLIFIERS Wide-bandwidth high-resolution search for extraterrestrial intelligence [NASA-CR-191618] p 110 N93-15825 TRANSLATIONAL MOTION Development and implementation of the MotoMir experiment on the Mir Space Station p 220 N93-24363 A demonstration of motion base design alternatives for the National Advanced Driving Simulator [NASA-TM-103881] p 236 N93-24490 TRANSISSION LINES Joint HVAC transmission EMF environmental study [DE92-017863] p 43 N93-15211 TRANSMITTERS Biophysical and biochemical mechanisms in synaptic transmitter release [AD-A256340] p 55 N93-15198 Biophysical and biochemical mechanisms in synaptic transmitter release	during zero G [NASA-TP-3305] p 217 N93-23410 TREES (MATHEMATICS) Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A robust model for finding optimal evolutionary trees [DE93-010682] p 330 N93-30483 TREMORS Electromyographic investigations of tremor in aquanauts in simulated immersions p 90 A93-18292 TRENDS Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 TRITIUM Application of RADTRAN to estimation of doses to persons in enclosed spaces [DE93-000758] p 97 N93-17230 TROPICAL REGIONS Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304 TRYPTOPHAN Tryptophan availability modulates serotonin release from rat hypothatamic slices p 152 A93-27000 Serotonin release varies with brain tryptophan levels p 201 A93-32119 TUBERCULOSIS Immunological parameters in current and former US Air Force personnel p 16 N93-11295 Communicable diseases: A major burden of morbidity and mortality p 18 N93-11300 Rapid susceptibility testing of mycobacterium avium complex and mycobacterium tuberculosis isolated from AIDS patients [NASA-CR-192382] p 172 N93-20736 TUMBLING MOTION TALON and CRADLE: Systems for the rescue of tumbling spacecraft and astronauts p 196 N93-22268	UH-60 cockpit temperature [AD-A255918] p 69 N93-14090 ULCERS Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212 ULTRASONIC TESTS New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 ULTRAVIOLET ABSORPTION Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 ULTRAVIOLET RADIATION The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 Chloroflexus aurantiacus and ultraviolet radiation implications for Archean shallow-water stromatolites p 400 A93-55999 Ultraviolet disinfection technology assessment [PB92-222868] p 64 N93-12983 AFRRI Reports Radiobiology [AD-A257231] p 80 N93-15965 Photobiological investigations on spores of streptomyces griseus [ESA-TT-1269] p 277 N93-29274 ULYSSES MISSION Potential health risks from postulated accidents involving the Pu-238 RTG on the Ulysses solar exploration mission p 43 A93-13774 UNCONSCIOUSNESS Unconsciousness in flight and its prevention p 217 A93-32787 Acceleration-induced effects on baboon blood chemistry Acceleration-induced effects on baboon blood chemistry Statistical analysis of the human strangulation experiments: Comparison to +Gz-induced loss of consciousness [AD-A255485] p 54 N93-14789 UNDERGROUND STRUCTURES Human safety in the lunar environment

UNDERWATER TESTS SUBJECT INDEX

UNDERWATER TESTS Zero-gravity underwater simulations for the Columbus programme - Outcome of the first campaigns p 62 A93-17075 Statistically based decompression tables. 7: Selection and treatment of primary air and N2O2 data p 172 N93-20587 **UNDERWATER VEHICLES** TeleOperator/telePresence System (TOPS) Concept Verification Model (CVM) development p 367 N93-32112 UNITED KINGDOM Aircrew acceptance of automation in the cockpit p 144 N93-19761 UNITED STATES Achieving the promise of the bioscience revolution: The role of the Federal Government IPB93-1399701 p 244 N93-25457 UNIVERSITY PROGRAM Design of a vibration isolation system for a cycle ergometer to be used onboard the Space Shuttle [NASA-CR-192021] p 138 N93-17970 Conceptual design of a fleet of autonomous regolith throwing devices for radiation shielding of lunar habitats [NASA-CR-192030] p 139 N93-18018 Conceptual design of a thermal control system for an inflatable lunar habitat module [NASA-CR-192014] p 140 N93-18113 SHARC: Space Habitat, Assembly and Repair Center [NASA-CR-192031] p 140 N93-18153 Space life support engineering program p 141 N93-19039 [NASA-CR-192188] Earth to lunar CELSS evolution p 351 N93-29727 Design of biomass management systems and components for closed loop life support systems p 351 N93-29728 Exercise/recreation facility for a lunar or Mars analog p 352 N93-29733 Automation of closed environments in space for human comfort and safety p 352 N93-29734 Mars habitat p.352 N93-29747 GENESIS 2: Advanced lunar outpost p 352 N93-29760 Center of Excellence in Biotechnology (Research) p 330 N93-29915 [AD-A263598] UREAS Hydrothermal organic synthesis experiments [NASA-CR-191257] p 41 N93-13457 13 C NMR spectra of allosteric effectors of hemoglobin [AD-A262979] p 284 N93-28293 URINE Blood and urine responses to ingesting fluids of various salt and glucose concentrations --- to combat orthostatic intolerance p 83 A93-17528 An update on the readiness of vapor compression distillation for spacecraft wastewater processing [SAE PAPER 921114] p 290 A93-41307 Concept of waste transferring mechanisms ISAE PAPER 9212391 p 297 A93-41412 Extraction of potable water from urine for space n 345 A93-42121 applications Effect of water immersion on renal natriuretic peptide p 381 A93-49293 (urodilatin) excretion in humans The identification and quantitation of triamterene in blood and urine from a fatal aircraft accident p 49 N93-12612 [AD-A254550] Distribution of human waste samples in relation to sizing waste processing in space p 68 N93-14001 Survey of aviation medical examiners: Information and attitudes about the pre-employment and pre-appointment drug testing program IDOT/FAA/AM-92/151 OT/FAA/AM-92/15] p 218 N93-24088 Microbiological test results of the environmental control and life support systems vapors compression distillation subsystem recycle tank components following various pretreatment protocols p 359 N93-32354 INASA-CR-1925701 Microbiological and corrosion analysis of three urine retreatment regimes with titanium 6A1-4V p 372 N93-32356 NASA-CR-1925751 UTRICLE Micromotional studies of utricular and canal afferents INASA-CR-1927031 p 207 N93-22800

Allergic, Immunological and Infectious Disease Problems in Aerospace Medicine [AGARD-CP-518] Vaccination against Hepatitis B: The Italian strategy

p 15 N93-11289

HIV variability and perspectives of a vaccine

p 16 N93-11294

Communicable diseases: A major burden of morbidity p 18 N93-11300 and mortality Susceptibility in USAF recruits to vaccine preventable

p 18 N93-11301 Absence of protective immunity against diphtheria in a p 18 N93-11302 large proportion of young adults Dramatic reduction of meningococcal meningitis among

military recruits in Italy after introduction of specific vaccination p 18 N93-11303

Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304 Clinical and immunological response to vaccination with parenteral or oral vaccines in two groups of 30 recruits

p 19 N93-11305 Studies of safety, infectivity, and immunogenicity of a new Temperature Sensitive (TS) 51-1 strain of S. typhi as a new live oral typhoid fever vaccine candidate

p 19 N93-11306 Use of novel adjuvants and delivery systems to improve the humoral and cellular immune response to malaria p 20 N93-11308 vaccine candidate antigens Cytokines as vaccine adjuvants: Interleukin 1 and its p 20 N93-11309 synthetic peptide 163-171 Future approaches to vaccine development single-dose

vaccines using controlled-release delivery systems p 20 N93-11310

diseases

Photobiological investigations spores of streptomyces griseus p 277 N93-29274

VACUUM CHAMBERS Growing wheat to maturity in reduced gas pressures | NASA-CR-193245 | p 277 N93-29216

VALIDITY Phases of the project development and examination p 343 N93-31231

methodologie VALSALVA EXERCISE

The effects of variations in the anti-G straining maneuver

on blood pressure at +Gz acceleration p 118 A93-25204

VAN DE GRAAFF ACCELERATORS

Radiation physics, biophysics, and radiation biology | DE92-013673 | p 6 N93-12266 p 6 N93-12266

VASOCONSTRICTION Limited heat transfer between thermal compartments

during rewarming in vasoconstricted patients p 88 A93-18036

Effect of acute hypoxia exposures on plasma endothelin Effects of cold injury on serum angiotensin converting p 199 A93-30444 enzyme activities in rats Norepinephrine content in discrete brain areas and neurohypophysial vasopressin in rats after a 9-d spaceflight

p 273 A93-41167 Systemic and pulmonary hypertension after resuscitation with cell-free hemoglobin

AD-A258185| p 120 N93-17900

VEGETARIES

Plant growth modeling at the JSC variable pressure growth chamber - An application of experimental design ISAE PAPER 921356 | p 307 A93-41515 Tests characterizing bioprocessor hardware

analytical modeling p 307 A93-41516 [SAE PAPER 921357]

Effects of incandescent radiation on photosynthesis, growth rate and yield of 'Waldmann's Green' leaf lettuce p 357 A93-46468

Growth and yield characteristics of 'Waldmann's Green' leaf lettuce under different photon fluxes from metal halide or incandescent + fluorescent radiation p 357 A93-46469

The first 'space' vegetables have been grown in the 'SVET' greenhouse using controlled environmental conditions p 394 A93-52410 Crop growth and associated life support for a lunar p 67 N93-13994 farm

Analysis of the lettuce data from the variable pressure growth chamber at NASA Johnson Space Center: A p 245 N93-26069 three-stage nested design model VEGETATION

Pyrolysis of vegetation by brief intense irradiation

p 324 A93-42915 **VEGETATION GROWTH**

Hazard and risk assessment for surface components of a lunar base Controlled Ecological Life Support

p 302 A93-41451 [SAE PAPER 921285] Design and evaluation of a payload to support plant

rowth onboard COMET 1 p 308 A93-41547 ISAE PAPER 9213891

A matrix-based porous tube water and nutrient delivery p 309 A93-41548 ISAE PAPER 9213901

Dynamics of auxin movement in the gravistimulated leaf-sheath pulvinus of oat (Avena sativa)

p 358 A93-46472

Some qualitative and quantitative aspects of the fast-rotating clinostat as a research tool --- for effects of weightlessness on biological objects

p 375 A93-49209

How well does the clinostat mimic the effect of microgravity on plant cells and organs? p 376 A93-49213

Engineering verification of the biomass production number p 67 N93-13996 The production and use of aeroponically grown inocula

of VAM fungi in the native plant nursery p 43 N93-15208 IPB92-2049731 Characterization of the water soluble component of

nedible residue from candidate CELSS crops p 139 N93-18111 INASA-TM-1075571

Active synthetic soil

[NASA-CASE-MSC-21954-1-NP] p 114 N93-19054 A membrane-based subsystem for water-vapor recovery from plant-growth chambers

[NASA-CR-177602] p 149 N93-20065 Growing wheat to maturity in reduced gas pressures NASA-CR-193245] p 277 N93-29216 [NASA-CR-193245]

Correlation between the lymph dynamics and venous pressure during short-term antiorthostatic effects

p 325 A93-43070

VELOCITY

Visual processing of object velocity and acceleration [AD-A261048] p 265 N93-25778 VELOCITY ERRORS

Methodology issues concerning the accuracy of kinematic data collection and analysis using the ariel performance analysis system

INASA-CR-1856891 p-34 N93-12211 VENTILATION

Maximal lung ventilation and forced expiration rate under Gas composition in the blood of rabbits exposed to a

high-pressure atmosphere under conditions spontaneous and forced ventilation p 77 A93-18301 Ventilation loss in the NASA Space Shuttle crew protective garments: Potential for heat stress

p 148 N93-19955 AD-A2585521

VENUS (PLANET)

Venus: A search for clues to early biological possibilities p 113 N93-18549

VENUS ATMOSPHERE

The life span of the biosphere revisited

p 149 A93-21847 Venus: A search for clues to early biological p 113 N93-18549 possibilities

VERBAL COMMUNICATION

Insights into pilot situation awareness using verbal protocol analysis p 175 A93-27138

The effect of type of task, degree of integration, and modality on the performance of concurrent tasks

p 175 A93-27140 Electronic map interpretation in a dual-task context

p 176 A93-27144 Comparing performance on implicit memory tests

p 131 N93-17921 IAD-A2581681 Spontaneous discovery and use of categorical

IAD-A2616581 p 260 N93-26364 **VERTEBRATES**

Computer based analysis and synthesis of retinal function LAD-A2605141 p 221 N93-24420

VERTICAL LANDING

Psychophysiological characteristics of the activity of flight personnel during training on VTOL aircraft

p 45 A93-15175

VERTICAL MOTION SIMULATORS Line-of-sight determination in real-time simulations p 406 A93-52666 [AIAA PAPER 93-3567]

A demonstration of motion base design alternatives for the National Advanced Driving Simulator

[NASA-TM-103881] p 236 N93-24490

VERTICAL ORIENTATION

A free-fall flip-over response in rats after the flight onboard the Cosmos-936 biosatellite

p 240 A93-35215 Effects of long-term weightlessness circularvection p 279 A93-39725

Spatial orientation in weightless environments

p 388 A93-49563 Optovert: An AustroMir-1991 experiment. Orientational

effects from optokinetic stimulation p 226 N93-24366 VERTICAL PERCEPTION

Accuracy of aimed arm movements in changed gravity p 56 A93-16159 OPTOVERT: An AUSTROMIR 91 experiment

Orientational effects from optokinetic stimulation

p 159 A93-26571

VACCINES

SUBJECT INDEX **VIRUSES**

Effects of visually induced self-motion perception Evaluation of two microclimate cooling air vests on a (vection) on upright standing posture heated mannequin Visual perception of structure from motion p 214 A93-31531 IAD-A2594101 p 26 N93-11503 p 194 N93-21269 LAD-A2532351 Evaluation of personal cooling systems in conjunction Optovert: An AustroMir-1991 experiment. Orientational Effect of contrast on human speed perception effects from optokinetic stimulation p 226 N93-24366 with explosive ordnance disposal suits [NASA-TM-103898] p 141 N93-19104 IAD-A2628621 p 350 N93-29471 VERTICAL TAKEOFF VIGNETTING VETERINARY MEDICINE Psychophysiological characteristics of the activity of A tutorial on exit pupils and eye rotation with virtual image flight personnel during training on VTOL aircraft Fuzzy neural network methodology applied to medical optical displays diagnosis I AD-A262399 I p 45 A93-15175 p 334 N93-29546 p 333 N93-29400 VIBRATION VIKING MARS PROGRAM VERY LARGE SCALE INTEGRATION Acoustical and vibratory stimuli interdependencies and Mars: A reassessment of its interest to biology Silicon neuron their applications in simulation and cue synchronization p 113 N93-18550 IAD-A2550911 p 50 N93-12756 [AIAA PAPER 93-3562] p 406 A93-52662 VIRAL DISEASES Parametric study of diffusion-enhancement networks for Helmeted head and neck dynamics under whole-body · Inactivation of a model coliphage virus in water by spatiotemporal grouping in real-time artificial vision p 264 N93-25531 iodine AD-A2560591 p 58 N93-14580 VIBRATION DAMPING p 274 A93-41520 ISAE PAPER 9213611 Electrically modifiable nonvolatile SONOS synapses for Dynamic analysis to evaluate viscoelastic passive Clinical types of Hepatitis B p 15 N93-11286 electronic neural networks damping augmentation for the Space Shuttle Remote Viral hepatitis in the US Air Force, 1980 - 1989 [AD-A258318] p 122 N93-18252 Manipulator System p 28 A93-12222 p 15 N93-11287 VESTIBULAR NYSTAGMUS Active vibration damping of the Space Shuttle remote Hepatitis A and Hepatitis B: Risks compared to other Influence of gravitoinertial force level on vestibular and manipulator system p 231 A93-31993 nd immunization p 15 N93-11288 vaccine preventable diseases and visual velocity storage in yaw and pitch Human-in-the-loop evaluation of RMS Active Damping recommendations p 165 A93-28701 Augmentation Vaccination against Hepatitis B: The Italian strategy Antagonistic otolith-visual units in cat vestibular nuclei [AIAA PAPER 93-3875] p 393 A93-51460 . p 15 N93-11289 p 199 A93-30511 Design of a vibration isolation system for a cycle VIRTUAL PROPERTIES The character of spontaneous oculomotor activity in ergometer to be used onboard the Space Shuttle The realities of using visually coupled systems for training |NASA-CR-192021| p 138 N93-17970 weightlessness and during readaptation applications p 228 A93-30063 p 248 **VIBRATION EFFECTS** VIRTUAL REALITY Significance of a comparison of results of caloric and Gravitoinertial force level affects the appreciation of limb Spatial orientation and dynamics in virtual reality systems position during muscle vibration p 178 A93-27185 vestibulometric rotation tests p 248 A93-35226 p 169 A93-28744 - Lessons from flight simulation Vestibulo-oculomotor responses under conditions of Early andrological effects in rats under the combined Studies of the field-of-view resolution tradeoff in p 242 A93-35263 p 251 A93-35256 effect of irradiation and vibration immersion hypokinesia virtual-reality systems A93-33443 Effect of low-frequency vibration on the activity of The design of virtual spaces and virtual environments Dynamic analysis of ocular torsion in parabolic flight dehydrogenases in neurones of the nucleus vestibularis using video-oculography p 386 A93-52405 p 232 A93-33445 p 242 A93-35670 VESTIBULAR TESTS anterior of rats Depth cue interaction in telepresence and simulated Pilot investigation - Nominal crew induced forces in p 232 A93-33446 Reduced voluntary non-visual suppression of the telemanipulation vestibulo-ocular reflex gain during nitrous oxide narcosis zero-g |SAE PAPER 921155| Human behavior in virtual environments n 293 A93-41338 p 7 A93-10329 p 233 A93-33447 Transmission of vibration through the human body to Response characteristics of semicircular canal in cats A teleoperation training simulator with visual and under linear acceleration p 3 A93-13536 the head: A summary of experimental data kinesthetic force virtual reality p 233 A93-33448 HSVR-TR-2181 p 361 N93-32237 The effects of cephalad body fluid redistribution on the Timing considerations of Helmet Mounted Display VIBRATION ISOLATORS ultrastructure of the vestibular apparatus of guinea pig p 4 A93-13717 performance p 233 A93-33449 Design of a vibration isolation system for a cycle Visual search in virtual environments ergometer to be used onboard the Space Shuttle A four-pole electric swing and its application to the p 233 A93-33450 [NASA-CR-192021] p 138 N93-17970 research on vestibular function p 103 A93-19999 A computational model for the stereoscopic optics of head-mounted display p 390 A93-49393 Vibration isolation p 365 N93-31458 Computer-assisted three-dimensional reconstruction a head-mounted display VIBRATION PERCEPTION simulations of vestibular macular neural Synthetic experience - A proposed taxonomy p 104 A93-20700 Study of the whole-body response to vibration: The effect p 390 A93-49398 connectivities of repeated exposure to the long-term whole-body vibration. II p 9 A93-11286 Illusions of visual-target motion caused by electrical Profile analysis of simulator sickness symptoms p 119 A93-25653 vestibular stimuli Application to virtual environment systems The effect of cortical vestibular area stimulation on the Relation between perception of vertical axis rotation and p 381 A93-49399 p 214 A93-32176 vestibulo-ocular reflex symmetry activity of the neurons of lateral vestibular nuclei during induced motion sickness Linear vestibuloocular reflex during motion along axes p 2 A93-12863 environments p 381 A93-49401 vibration between nasooccipital and interaural Cybersickness - Perception of self-motion in virtual Study on mechanical characteristics of viscera in dogs p 203 A93-32773 p 381 A93-49402 p 3 A93-13540 Response characteristics of the human torsional Mental rotation - A key to mitigation of motion sickness Investigation of nonlinear dynamic responses to random p 215 A93-32774 p 387 A93-49404 vestibuloocular reflex vibration in dogs p 4 A93-13722 in the virtual environments? Significance of a comparison of results of caloric and Will simulation sickness slow down the diffusion of virtual VIBRATION TESTS vestibulometric rotation tests p 248 A93-35226 environment technology? p 391 A93-49405 Design guide for the ergonomic aspects of helicopter Vestibular afferent responses to microrotational stimuli A literature survey for virtual environments - Military flight crew seating p 328 A93-44930 simulator visual systems and simulator sickness [ISVR-TR-209] p 65 N93-13464 p 387 A93-49406 Effect of transdermally administered scopolamine on the A preliminary structural analysis of space-based vestibular system in humans p 383 A93-49572 Visual data interpretation; Proceedings of the Meeting, inflatable tubular frame structures p 313 N93-27849 Medical evaluation of spatial disorientation mishaps San Jose, CA, Feb. 10-11, 1992 VIRRATIONAL STRESS p 391 A93-49451 p 134 N93-19703 (SPIE-1668) Comparison between VDV and a(rms) using simulated Micromotional studies of utricular and canal afferents Virtual environment display for a 3D audio room impulsive vibration p 91 A93-19991 p 207 N93-22800 |NASA-CR-192703| simulation p 408 A93-53125 VIDEO COMMUNICATION Virtual landings --- developing Enhanced Vision Systems Neural processing of gravity information | NASA-CR-192766 | p 209 N93-23233 Night vision goggle training: Development and p 410 A93-54868 production of six video programs VESTIBULES personal Advanced technology portable (AD-A2585291 p 148 N93-20050 The effect of cortical vestibular area stimulation on the visualization activity of the neurons of lateral vestibular nuclei during Evolving technologies for Space Station Freedom IAD-A2538081 p 32 N93-11783 p 313 N93-27794 p 2 A93-12863 computer-based workstations Developing virtual cockpits p 145 N93-19764 vibration p 145 N93-19765 Human vestibular function and weightlessness VIDEO DATA Panoramic cockpit displays p 84 A93-17531 Flight above a virtual world p 145 N93-19766 Visual data interpretation: Proceedings of the Meeting. Alterations of proprioceptive function in the weightless San Jose, CA, Feb. 10-11, 1992 Autonomic physiological data associated with simulator p 86 A93-17549 |SPIE-1668| p 391 A93-49451 discomfort environment p 222 N93-24738 [NASA-CR-177609] Vestibular problems in diving and in space Evaluation of lens distortion errors in video-based motion p 169 A93-28747 Virtual interface applications for airborne weapons analysis p 318 N93-28858 Vestibular ataxia following shuttle flights - Effects of [NASA-TP-3266] p 258 N93-25736 systems Head mounted displays for virtual reality microgravity on otolith-mediated sensorimotor control of VIDEO EQUIPMENT posture p 169 A93-28750 p 322 N93-29340 IAD-A2634981 Intensified CCD sensor applications for helmet-mounted Effect of low-frequency vibration on the activity of Exercise/recreation facility for a lunar or Mars analog displays p 228 A93-30064 p 352 N93-29733 dehydrogenases in neurones of the nucleus vestibularis System for generating dynamic video imagery for human p 242 A93-35670 anterior of rats A preliminary empirical evaluation of virtual reality as an instructional medium for visual-spatial tasks factors research Role of the vestibular end organs in experimental motion IAD-A2486751 p 31 N93-11743 p 367 N93-32151 sickness - A primate model p 399 A93-55933 United States Army space experiment 601 Neurochemistry and pharmacology of motion sickness VIRULENCE IAD-A261460 I p 260 N93-26353 Intracellular targeting of the Yersinia YopE cytotoxin in p 399 A93-55934 in nonhuman species Method of encouraging attention by correlating video ammalian cells induces actin microfilament disruption Statistical prediction of space motion sickness game difficulty with attention level FOA-B-40420-4.41 p 275 N93-27989 p 403 A93-55943 NASA-CASE-LAR-15022-1 p 288 N93-28128 Plasmid encoded virulence of Yersinia Micromotional studies of utricular and canal afferents p 275 N93-28199 VIDEO SIGNALS [FOA-B-40419-4.4] INASA-CR-1927031 N93-22800

High-resolution contrast control on a video display:

p 60 N93-15400

Method and calibration

[AD-A256552]

VIRUSES

Roles of water molecules in bacteria and viruses

VESTS

Heat strain during at-sea helicopter operations and the

effect of passive microclimate cooling p 7 A93-10330

p 243 A93-36555

Immunization of personnel traveling to a destination in VISUAL AIDS Microwaves and the visual analyzer tropical countries: French position p 19 N93-11304 p 250 A93-35247 The design of virtual spaces and virtual environments Epidemiologic research in Antarctica p 232 A93-33445 Visual cues in low-level flight - Implications for pilotage. p 81 N93-16800 training, simulation, and enhanced/synthetic vision Operator vision aids for telerobotic assembly and VISCERA p 264 A93-35918 p 262 A93-35530 servicing in space Study on mechanical characteristics of viscera in dogs The impact of visual noise on spatial orientation Operator vision aids for space teleoperation assembly p 257 A93-36229 p 3 A93-13540 p 33 N93-11981 and servicing EFfects of positive acceleration on the microcirculation Analysis of factors influencing contrast vision in normal Sensory sensitivities and discriminations and their roles of rabbit conjunctiva, mesentery, skin, and pia mater p 332 A93-44848 p 4 A93-13709 The role of spatial attention in visual word processing p 224 N93-23479 IAD-A2597421 VISCOELASTICITY p 339 VISUAL CONTROL Dynamic analysis to evaluate viscoelastic passive Perceptual bias for forward-facing motion Flight-path estimation in passive low-altitude flight by damping augmentation for the Space Shuttle Remote p 339 A93-44940 p 223 A93-32004 visual cues Manipulator System p 28 A93-12222 A computer simulation model for attention distribution VISIBILITY Operator vision aids for telerobotic assembly and and event generation p 340 A93-45323 Visibility of transmissive liquid crystal displays under servicing in space p 262 A93-35530 Spatial orientation, adaptation, and motion sickness in dynamic lighting conditions Dynamic analysis of human visuo-oculo-manual p 382 A93-49403 p 103 A93-19990 real and virtual environments Engineering the visibility of small features on electronic coordination control in target tracking tasks Alternating prism exposure causes dual adaptation and flight displays p 287 A93-41166 n 144 N93-19758 generalization to a novel displacement Sensory sensitivities and discriminations and their roles VISUAL DISCRIMINATION p 388 A93-51959 in aviation False cue detection thresholds in flight simulation The effects of pyridostigmine bromide on visual [AD-A2597421 p 407 A93-52674 p 224 N93-23479 performance p 87 A93-18034 1AIAA PAPER 93-35781 VISIBLE SPECTRUM High-resolution inserts in wide-angle head-mounted Visualization and modeling of factors influencing visibility Equipment, more or less ready to be used in elicopters p 148 N93-19785 stereoscopic displays in computer-aided crewstation design p 408 A93-53121 helicopters p 292 A93-41323 Perfusion of the visual cortex during pressure breathing | SAE PAPER 921135 | VISION at different high-G stress profiles p 401 A93-55167 Computer simulations of object discrimination by visual Human vision, visual processing, and digital display II; Eye movements and visual information processing cortex Proceedings of the Meeting, San Jose, CA, Feb. 27-Mar. p 24 N93-10278 [AD-A253345] LAD-A2501981 p 12 N93-10271 1 1991 Perception of lightness and brightness in complex A spurious pop-out in visual search [SPIE-1453] p 137 A93-25363 IAD-A2565481 n 57 N93-14267 atterns Image enhancement filters significantly improve reading IAD-A2540931 Institute for the Study of Human Capabilities n 25 N93-10658 performance for low vision observers Effects of early bright, late bright and dim illumination p 69 N93-14427 IAD-A2560911 p 167 A93-28723 upon circadian neuroendocrine, electrophysiological and Higher order mechanisms of color vision Contact lenses in aviation . The Marine Corps p 60 N93-15329 IAD-A2563691 behavioral responses p 289 A93-41172 IAD-A2541291 p 13 N93-10661 Toward the ideal military aviation sunglass Prevalence of corrective lens wear in Royal Australian p 140 N93-18200 Coordinated action in 3-D space AD-A2582001 Air Force flight crews p 289 A93-41173 p 395 A93-52641 IAD-A2498301 p 31 N93-10994 VISUAL FIFL DS Machine vision in space Visual psychophysics of egomotion Visual scene effects on the somatogravic illusion p 88 A93-18035 Eye movements and visual information processing [AD-A248349] p.26 N93-11488 [AD-A2501981 Visual perception of structure from motion p 24 N93-10278 Human low vision image warping - Channel matching p 26 N93-11503 A new test of scanning and monitoring ability: Methods p 231 A93-32444 [AD-A253235] considerations and initial results Eye movements and visual information processing The effects of luminance boundaries on color [AD-A2491231 o 24 N93-10321 perception p 24 N93-10278 IAD-A2501981 Functional MRI studies of human vision on a clinical p 22 N93-11841 AD-A250705 I The detection of lateral motion by US Navy jet pilots imager p 120 N93-17896 A spurious pop-out in visual search [AD-A258115] [DE92-017448] [AD-A256548] p 49 N93-12566 p 57 N93-14267 Visual perception of elevation The prevalence of artificial lens implants in the civil Effects of spatial luminance nonuniformities on IAD-A2613941 p 259 N93-26307 visual-task performance and subjective uniformity rman population Neuropsychological components of object [DOT/FAA/AM-92/14] p 253 N93-25214 IAD-A2559891 identification Receptoral and neural aliasing Psychophysical analyses of perceptual representations IAD-A2614491 p 259 N93-26347 (AD-A2614381 p 261 N93-26489 AD-A2554321 p 58 N93-14510 Recentoral and neural aliasing Armstrong Laboratory space visual function tester The perception of articulated motion: Recognizing p 261 N93-26489 [AD-A261438] p 284 N93-28739 program Visual field information in nap-of-the-Earth flight by moving light displays Effect of microgravity on several visual functions during [AD-A256046] teleoperated helmet-mounted displays STS Shuttle missions: Visual Function Tester-Model p 311 N93-27177 Automatic information processing and high performance (VFT-1) skills: Individual differences and mechanisms of p 284 N93-28740 VISUAL FLIGHT Effect of microgravity on visual contrast threshold during performance improvement in search-detection and Adaptive strategies of remote systems operators STS Shuttle missions: Visual Function Tester-Model 2 complex tasks exposed to perturbed camera-viewing conditions [AD-A257711] p 100 N93-17684 p 284 N93-28741 p 187 A93-27155 The detection of lateral motion by US Navy jet pilots Effect of microgravity on the visual near point: Visual VISUAL FLIGHT RULES Function Tester-Model 4 (VFT-4) [AD-A2581151 p 284 N93-28742 p 120 N93-17896 Active control versus passive observation in a simulated Analysis of visual loss from retinal lesions Spatio-temporal masking: Hyperacuity and local p 179 A93-27196 flight task [AD-A264692] p 336 N93-30494 adantation VISUAL PERCEPTION Photoreceptors regulating circadian behavior: A mouse IAD-A2579341 p 121 N93-18006 Human speed perception is contrast dependent Toward the ideal military aviation sunglass p 55 A93-14119 [AD-A264881] p 337 N93-30908 LAD-A258200 L p 140 N93-18200 Human vestibular function and weightlessness The test memorization of symbols and numbers: A Validity of clinical color vision tests for air traffic control p 84 A93-17531 computer generated test for visual sensitivity Factors influencing perceived angular velocity p 343 N93-31233 IAD-A2582191 Á93-17800 D 123 N93-18301 Effect of contrast on human speed perception Choosing specifiers - An evaluation of the basic tasks NASA-TM-1038981 p 141 N93-19104 Designing the right visor p 181 A93-26885 p 102 A93-19985 model of graphical perception Otolithic illusions on takeoff and visual information: Toward the ideal military aviation sunglass tllusions of visual-target motion caused by electrical N93-18200 [AD-A258200] Reflections in connection with an air accident case p 140 vestibular stimuli p 119 A93-25653 p 159 A93-26245 p 134 N93-19681 Multi-function visor p 146 N93-19770 Colour is what the eye sees best Engineering the visibility of small features on electronic Helmet visor support apparatus Human visual performance model for crewstation p 144 N93-19758 AD-D0156841 flight displays p 351 N93-29606 p 182 A93-26887 Sensory sensitivities and discriminations and their roles VISUAL ACUITY Human speed perception is contrast dependent p 174 A93-26950 Spatial contrast sensitivity through aviator's night vision in aviation [AD-A259742] p 224 N93-23479 imaging system p 393 A93-52300 Human factors issues in the use of night vision p 189 A93-27193 Theory of synaptic plasticity in visual cortex Threat or Photo-Refractive Keratectomy (PRK) -[AD-A260052] p 224 N93-23960 Half-squaring in responses of cat striate cells millennium for military pilots? p 401 A93-55169 p 157 A93-28748 Why do we see three-dimensional objects? Analysis of retinal function following laser irradiation p 224 N93-23986 Two types of occlusion cues for the perception of 3-D IAD-A2598921 IAD-A2556491 p 52 N93-14163 Theory of synaptic plasticity in visual cortex illusory objects in binocular fusion n 222 A93-30239 Higher order mechanisms of color vision Effects of visually induced self-motion perception AD-A2603221 p 219 N93-24238 IAD-A2563691 p 60 N93-15329 Eve movements and visual information processing (vection) on upright standing posture Night vision manual for the flight surgeon p 225 N93-24297 p 214 A93-31531 1AD-A2599551 [AD-A257059] p 104 N93-15710 Human visual limitations on suprathreshold contrast Relation between perception of vertical axis rotation and Retinal information processing for minimum laser lesion perception through ANVIS vestibulo-ocular reflex symmetry p 214 A Visual and somesthetic influences on p 214 A93-32176 detection and cumulative damage p 226 N93-24431 [AD-A259970] p 224 A93-32782 IAD-A2591951 p 171 N93-20563 orientation in the median plane Visual processing of object velocity and acceleration [AD-A261048] p 265 N93-25778 Armstrong Laboratory space visual function tester Shape discrimination and the judgement of perfect p 284 N93-28739 program Visual perception of elevation symmetry - Dissociation of shape from size p 224 A93-32788 IAD-A2613941 p 259 N93-26307 Effect of microgravity on several visual functions during Things that go bump in the light - On the optical Neural basis of motion perception STS Shuttle missions: Visual Function Tester-Model 1 p 256 A93-35099 [AD-A261452] p 260 N93-26349 p 284 N93-28740 specification of contact severity

Coordinated action in 3-D space	Contextual change and skill acquisition in visual search	VULNERABILITY
[AD-A261418] p 261 N93-26449	- Does the rate of change affect performance?	Crucial role of detailed function, task, timeline, link, and
Effect of microgravity on the visual near point: Visual	p 178 A93-27187	human vulnerability analyses in HRA
Function Tester-Model 4 (VFT-4) p 284 N93-28742	Effects of display luminance on the recognition of color	[DE93-001923] p 321 N93-28942
Head mounted displays for virtual reality	symbols on similar color backgrounds p 189 A93-27191	
[AD-A263498] p 322 N93-29340	Overconfidence, preview, and probability in strategic	W
A tutorial on exit pupils and eye rotation with virtual image optical displays	planning p 179 A93-27195	
[AD-A262399] p 333 N93-29400	Effects of laser glare on visual search performance	WAKEFULNESS
Computing with neural maps: Application to perceptual	p 180 A93-28158	Evaluation of zolpidem on alertness and psychomotor
and cognitive function	Performance under dichoptic versus binocular viewing	abilities among aviation ground personnel and pilots
[AD-A264056] p 341 N93-30033	conditions - Effects of attention and task requirements p 287 A93-40772	p 401 A93-55163
Representations of shape in object recognition and	The role of spatial attention in visual word processing	The use of electrophysiological and cognitive variables
long-term visual memory	p 339 A93-44922	in the assessment of degradation during periods of sustained wakefulness
[AD-A264342] p 341 N93-30163	Disruption and maintenance of skilled visual search as	[AD-A263033] p 283 N93-27923
Conspicuity of aids to navigation. Part 1: Temporal	a function of degree of consistency p 389 A93-52501	WALKING
patterns for flashing lights [AD-A264626] p 341 N93-30426	Design of a reading test for low vision image warping	Balance and gait analysis after 30 days -6 deg bed rest
Effects of area-of-interest display characteristics of	p 400 A93-53025 Psychophysiological study on the effects of co-existence	 Influence of lower-body negative-pressure sessions
visual search performance and head movements in	of lines for detecting dot target p 405 A93-55330	p 48 A93-16161
simulated low-level flight	A spurious pop-out in visual search	Energetics of watking and running - Insights from
[AD-A264661] p 341 N93-30542	[AD-A256548] p 57 N93-14267	simulated reduced-gravity experiments
The dynamics of visual representation, attention,	Effects of spatial luminance nonuniformities on	p 116 A93-21687
encoding, and retrieval processes	visual-task performance and subjective uniformity	Effects of unilateral selective hypergravity stimulation on gait p 386 A93-52407
[AD-A264674] p 342 N93-30543	[AO-A255989] p 58 N93-14416	Compliant walker
Discomfort glare from high-intensity discharge headlamps: Effects of context and experience	Enhanced performance using physiological feedback [AD-A258006] p 130 N93-17816	NASA-CASE-GSC-13348-2 p 53 N93-14708
[PB93-174720] p 336 N93-30659	Effects of terfenadine and diphenhydramine on brain	WALL FLOW
An algorithm for simple and complex feature detection:	activity and performance in a UH-60 flight simulator	Wall shear stress estimates in coronary artery
From retina to primary visual cortex	[AD-A258012] p 119 N93-17817	constrictions p 170 A93-28759
[AD-A264306] p 337 N93-30897	Duration of alpha suppression increases with angle in	WALLS
The aircraft position tests: A computer generated	a mental rotation task	Vertical regolith shield wall construction for lunar base
process for acquisition of spatial orientation capability	[AD-A261592] p 260 N93-26435 Effect of microgravity on visual contrast threshold during	applications p 107 N93-17446
p 344 N93-31236 VISUAL PIGMENTS	STS Shuttle missions: Visual Function Tester-Model 2	WARFARE The effect of combat on aircrew subjective readiness
Studies towards the crystallization of the rod visual	(VFT-2) p 284 N93-28741	and LSO grades during Operation Desert Shield/Storm
pigment rhodopsin p 1 A93-11150	Human capabilities and limitations in situation	[AD-A258156] p 132 N93-18294
The pigmentary dispersion disorder in USAF aviators	awareness p 319 N93-28863	Subjective fatigue in A-6, F-14, and F/A-18 aircrews
p 87 A93-18033	A preliminary empirical evaluation of virtual reality as	during operations Desert Shield and Storm
VISUAL SIGNALS	an instructional medium for visual-spatial tasks	[AD-A259243] p 171 N93-20580
Super auditory localization for improved human-machine interfaces	p 367 N93-32151 VITAMINS	WARNING SYSTEMS
[AD-A254699] p 34 N93-12229	Effects of vitamin D and phosphorus level in diet on	Monitoring of pilot actions as part of a knowledge-based system for pilot assistance p 59 N93-15184
Theory of signal detection and its application to visual	bone, skeletal muscle and kidney in suspended rats	Model-based reasoning applied to cockpit warning
target acquisition: A review of the literature	p 77 A93-19994	systems p 147 N93-19778
[AD-A262920] p 288 N93-28307	VOICE COMMUNICATION	WASTE DISPOSAL
VISUAL STIMULI	Evaluation of lightweight and low profile communications	Concept of waste transferring mechanisms
The development of a visual color checkerboard	devices for Respiratory Protective system 21 (RESPO 21)	[SAE PAPER 921239] p 297 A93-41412
stimulator p 30 A93-13723 Anisotropy in an ambiguous kinetic depth effect	[AD-A253393] p 30 N93-10217	OCAM - A CELSS modeling tool: Description and results Object-oriented Controlled Ecological Life Support
p 55 A93-14097	Evaluation of an electronics system concept for	System Analysis and Modeling
Involuntary attentional capture by abrupt onsets	Respiratory Protection system (RESPO 21)	[SAE PAPER 921241] p 298 A93-41413
p 97 A93-17974	[AD-A253394] p 30 N93-10288	Catalytic oxidation for treatment of ECLSS and PMMS
Display format and highlight validity effects on search	The use of voice processing for some aspects of the	waste streams Process Material Management
performance using complex visual displays	pilot-vehicle-interface in an aircraft p 146 N93-19772 Principles for integrating voice I/O in a complex	Systems
p 187 A93-27160 S-R compatibility effects with orthogonal stimulus and	interface p 146 N93-19774	[SAE PAPER 921274] p 301 A93-41443
response dimensions p 179 A93-27194	G-load effects and efficient acoustic parameters for	Consumables and wastes estimations for the First Lunar Outpost
Perceptual bias for forward-facing motion	robust speaker recognition p 146 N93-19775	[SAE PAPER 921287] p 302 A93-41453
p 339 A93-44940	The clearance test: A computer generated process for	Test of the Shuttle Extended Duration Orbiter (EDO)
Spatial orientation in weightless environments	acquisition of auditive short term sensitivity	Waste Collection Subsystem (WCS)
p 388 A93-49563	p 343 N93-31234	[SAE PAPER 921346] p 305 A93-41505
Psychophysiological study on the effects of co-existence of lines for detecting dot target p 405 A93-55330	VOICE CONTROL	Technology development for lunar base water
Role of the vestibular end organs in experimental motion	Controllability of the voice command system - A	recycling p 67 N93-13999 Plasma reactor waste management systems
sickness - A primate model p 399 A93-55933	preliminary study p 27 A93-11287 Ocular attention-sensing interface system	p 68 N93-14000
Space motion sickness monitoring experiment -	[NASA-CR-190884] p 65 N93-13450	Distribution of human waste samples in relation to sizing
Spacelab 1 p 403 A93-55941	VOLATILITY	waste processing in space p 68 N93-14001
Simulator sickness p 403 A93-55944	Experimental study of volatile metabolites of human	Annual report
The effects of luminance boundaries on color perception	body p 11 A93-13711	[NASA-CR-191389] p 105 N93-16840
[AD-A250705] p 22 N93-11841	VOLCANOES	Treatment of human-computer interface in a decision support system
Perceptual dimensions of visual scenes relevant for	An efficient lightning energy source on the early earth	[DE93-002281] p 237 N93-24502
simulating low-altitude flight	p 73 A93-17823	WASTE TREATMENT
[AD-A254645] p 57 N93-12662	VOLCANOLOGY	Life support research and development for the
The perception of articulated motion: Recognizing	Life in hot springs and hydrothermal vents	Department of Energy Space Exploration Initiative
moving light displays [AD-A256046] p 59 N93-14660	p 243 A93-36559	p 137 A93-25309 Human life support during interplanetary travel and
[AD-A256046] p 59 N93-14660 Enhanced performance using physiological feedback	VOMITING Central neurophysiological and neurochemical vomiting	domicile. V - Mars expedition technology trade study for
[AD-A258006] p 130 N93-17816	mechanisms (Review of the literature)	solid waste management
VISUAL TASKS	p 240 A93-35232	[SAE PAPER 921119] p 290 A93-41311
Locus of the single-channel bottleneck in dual-task	Neuropharmacology of motion sickness and emesis -	An assessment of waste processing/resource recovery
interference p 55 A93-14098	A review p 271 A93-39711	technologies for lunar/Mars life applications
Graphical displays - Implications for divided attention, focused attention, and problem solving	Xylazine emesis, yohimbine and motion sickness	JSAE PAPER 921271] p 300 A93-41441
p 102 A93-19984	susceptibility in the cat p 324 A93-42450	Anaerobic treatment of organic wastes from Controlled Ecological Life Support Systems
Choosing specifiers - An evaluation of the basic tasks	Buspirone blocks cisplatin-induced emesis in cats	[SAE PAPER 921272] p 301 A93-41442
model of graphical perception p 102 A93-19985	p 324 A93-42668	Determination of organic carbon and ionic accountability
Chromaticity and luminance as coding dimensions in	Applied chemical engineering thermodynamics [ISBN 0-387-54759-2] p 357 A93-46075	of various waste and product waters derived from ECLSS
visual search p 103 A93-19989	Understanding microwaves	water recovery tests and Spacelab humidity condensate
Visibility of transmissive liquid crystal displays under dynamic lighting conditions p 103 A93-19990	JISBN 0-471-57567-4 J p 357 A93-46300	[SAE PAPER 921313] p 303 A93-41475
Adaptive strategies of remote systems operators	Motion sickness and evolution p 399 A93-55930	Plasma reactor waste management systems p 68 N93-14000
exposed to perturbed camera-viewing conditions	The central nervous connections involved in motion	Annual report
p 187 A93-27155	induced emesis p 399 A93-55931	[NASA-CR-191389] p 105 N93-16840

WASTE UTILIZATION SUBJECT INDEX

Treatment of human-computer interface in a decision Simplified analysis of water distribution for Space Station Effect of water immersion on muscle sympathetic nerve support system Freedom response during static muscle contraction p 237 N93-24502 [SAE PAPER 921230] p 402 A93-55328 p 296 A93-41404 Development of a pyrolysis waste recovery model with OCAM - A CELSS modeling tool: Description and results Central cardiovascular pressures during graded water mersion in humans p 402 A93-55457 --- Object-oriented Controlled Ecological Life Support designs, test plans, and applications for space-based habitats p 267 N93-26076 immersion in humans System Analysis and Modeling WATER LOSS Environmental control and life support system |SAE PAPER 921241| p 298 A93-41413 Systemic and pulmonary hypertension after resuscitation p 311 N93-27718 Process Control Water Quality Monitor for Space Station with cell-free hemoglobin Technologies for ECLSS evolution AD-A2581851 Freedom - Development update p 120 N93-17900 p 299 A93-41434 p 311 N93-27720 |SAE PAPER 921264| WATER MANAGEMENT JSC ECLSS R/T program overview The development and testing of a volatile organics Space Station Water Processor - Current flight design p 312 N93-27725 | SAE PAPER 921112| p 289 A93-41306 concentrator for use in monitoring Space Station water WASTE UTILIZATION Simplified analysis of water distribution for Space Station SAE PAPER 9212661 Life support research and development for the Department of Energy Space Exploration Initiative p 300 A93-41436 Freedom The analytical control program for the NASA Space | SAE PAPER 921230 | p 296 A93-41404 p 137 A93-25309 Station Freedom Environmental Control and Life Support The application of filtration technology within the Water Utilization of on-site resources for Regenerative Life Processor on board Space Station Freedom System (ECLSS) Water Recovery Test p 300 A93-41439 Support Systems at a lunar outpost p 346 A93-42124 [SAE PAPER 921269] | SAE PAPER 921270 | p 300 A93-41440 Regenerative life support technology challenges for the Catalytic oxidation for treatment of ECLSS and PMMS Effects of air bubble contamination in recirculating water Space Exploration Initiative p 346 A93-42128 waste streams --- Process Material Management loop Lunar base CELSS: A bioregenerative approach p 302 A93-41450 |SAE PAPER 921282| Systems p 301 A93-41443 p 67 N93-13993 [SAE PAPER 921274] An on-line water quality monitor for Space Station p 364 A93-46801 Plasma reactor waste management systems Post-treatment of reclaimed waste water based on an p 68 N93-14000 electrochemical advanced oxidation process Variable-Volume Flushing (V-VF) device for water p 301 A93-41444 WASTE WATER [SAE PAPER 921275] p 195 N93-22167 conservation in toilets A hybrid regenerative water recovery system for lunar/Mars life support applications An update on the readiness of vapor compression Technologies for ECLSS evolution distillation for spacecraft wastewater processing p 311 N93-27720 p 301 A93-41445 p 290 A93-41307 [SAE PAPER 921114] [SAE PAPER 921276] Alternative processes for water reclamation and solid Post-treatment of reclaimed waste water based on an waste processing in a physical/chemical bioregenerative Immobilized cell bioreactors for water reclamation electrochemical advanced oxidation process Process stability and effect of reactor design p 311 N93-27721 life support system p 301 A93-41446 [SAE PAPER 921275] [SAE PAPER 921277] p 301 A93-41444 WATER POLLUTION Immobilized cell bioreactors for water reclamation -Biofilm formation and control in a simulated spacecraft Space life support technology applications to terrestrial Process stability and effect of reactor design environmental problems water system - Three year results p 265 N93-25617 | SAE PAPER 921277 | p 301 A93-41446 (SAE PAPER 9213101 p 303 A93-41472 Development of novel models for describing multiple Gray water recycling with a unique vapor compression Biodeterioration of materials in water reclamation toxicity effects distillation (VCD) design LAD-A2644391 n 336 N93-30422 p 304 A93-41480 ISAE PAPER 9213181 **ISAE PAPER 9213111** n 303 A93-41473 WATER QUALITY Microbiology operations and restructured Space Station Freedom Recovering potable water from wastewater in space platforms by lyophilization Use of sorption technology for treatment of humidity facilities aboard ondensate for potable water (SAE PAPER 9213121 p 303 A93-41474 SAE PAPER 9213231 p 304 A93-41485 p 296 A93-41389 [SAE PAPER 921213] High-recovery low-pressure reverse osmosis Microbiological concerns and methodological approaches related to bacterial water quality in Determination of organic carbon and ionic accountability ISAE PAPER 9213531 p 306 A93-41512 of various waste and product waters derived from ECLSS water recovery tests and Spacelab humidity condensate Generation of iodine disinfection by-products (IDP's) in a water recycle system ISAE PAPER 9212321 ISAE PAPER 9213131 p 303 o 297 A93-41406 p 307 A93-41521 Regenerable Microbial Check Valve - Life cycle tests ISAE PAPER 9213621 Process Control Water Quality Monitor for Space Station Extraction of potable water from urine for space results Freedom - Development update applications p 345 A93-42121 [SAE PAPER 921316] p 303 A93-41478 ISAE PAPER 9212641 p 299 A93-41434 Gray water recycling with a unique vapor compression A systems approach to water recycling research Continuous monitoring of effluent iodine levels of Space distillation (VCD) design p 347 A93-42149 Station water using solid state technology p 304 A93-41480 Microbiological methods for the water recovery systems p 299 A93-41435 ISAE PAPER 9213181 | SAE PAPER 921265| test_revision 1.1 The development and testing of a volatile organics Membrane technology for zero gravity life support [NASA-CR-184390] p 64 N93-12966 svstems concentrator for use in monitoring Space Station water Ultraviolet disinfection technology assessment SAE PAPER 9213201 .p 304 A93-41482 p 64 N93-12983 p 300 A93-41436 A novel membrane device for the removal of water vapor IPB92-2228681 ISAE PAPER 9212661 nd water droplets from air Variable-Volume Flushing (V-VF) device for water Measurement of free and dissolved gas content of water p 195 N93-22167 conservation in toilets amples on Space Station Freedom ISAE PAPER 9213221 D 304 A93-41484 Recovering potable water from wastewater in space Environmental control and life support systems ISAE PAPER 9212671 p 300 A93-41437 p 314 N93-27858 platforms by lyophilization Contaminant distribution and accumulation in water ISAF PAPER 9213231 p 304 A93-41485 Utilization of high energy electron beam in the treatment Water reclamation technology development for future of drinking and waste water [DE92-642335] ISAE PAPER 9213601 p 307 A93-41519 long range missions [SAE PAPER 921351] p 372 N93-32406 Inactivation of a model coliphage virus in water by p 306 A93-41510 WATER Modeling of membrane processes for air revitalization | SAE PAPER 921361 | p 274 A93-41520 A matrix-based porous tube water and nutrient delivery and water recovery A systems approach to water recycling research [SAE PAPER 921352] p 306 A93-41511 (SAE PAPER 921390) p 347 A93-42149 p 309 A93-41548 High-recovery low-pressure reverse osmosis (SAE PAPER 921353) p 306 / An on-line water quality monitor for Space Station Submarine Advanced Integrated Life Support system p 364 A93-46801 p 306 A93-41512 (SAILS) program Contaminant distribution and accumulation in water Microbiological methods for the water recovery systems AD-A253564 p 32 N93-11812 recycle systems test, revision 1.1 Lunar base CELSS: A bioregenerative approach p 307 A93-41519 p 64 N93-12966 | SAE PAPER 921360 | INASA-CR-184390 I p 67 N93-13993 Inactivation of a model coliphage virus in water by Technology development for lunar base water Technology development for lunar base water p 67 N93-13999 iodine recycling recycling p 67 N93-13999 Space life support engineering program [NASA-CR-192188] p 14 | SAE PAPER 921361 | p 274 A93-41520 Conceptual design of a lunar base thermal control p 141 N93-19039 Generation of iodine disinfection by-products (IDP's) in p 68 N93-14003 WATER RECLAMATION a water recycle system |SAE PAPER 921362| p 307 A93-41521 Europa: Prospects for an ocean and exobiological Bioregenerative life support as self-sustaining Design and preliminary testing of a membrane based p 113 N93-18552 ecosystem in space p 231 A93-32073 implications Space Station Water Processor - Current flight design water recycling system for European manned space WATER BALANCE ISAE PAPER 9211121 p 289 A93-41306 Does drinking protect against mountain sickness? missions An update on the readiness of vapor compression [SAE PAPER 921396] p 309 A93-41553 p 382 A93-49565 distillation for spacecraft wastewater processing Extraction of potable water from urine for space WATER CONSUMPTION p 290 A93-41307 [SAE PAPER 921114] p 345 A93-42121 Growing wheat to maturity in reduced gas pressures [NASA-CR-193245] p 277 N93-29216 applications Phase III Integrated Water Recovery Testing at MSFC Utilization of on-site resources for Regenerative Life Closed hygiene and potable loop test results and lesson Support Systems at a lunar outpost p 346 A93-42124 WATER IMMERSION A second postcooling afterdrop - More evidence for a Regenerative life support technology challenges for the [SAE PAPER 921117] p 290 A93-41309 Space Exploration Initiative p 346 A93-42128 convective mechanism p 44 A93-14969 Design of a Shuttle air and water prefilter for reduced A systems approach to water recycling research Electromyographic investigations of tremor in aquanauts p 90 A93-18292 p 347 A93-42149 in simulated immersions p 294 A93-41343 ISAF PAPER 9211611 ECLSS medical support activities Influence of viscous resistance on heart rate and oxygen A systems approach to water recovery testing for space INASA-CR-1844291 p 23 N93-12427 uptake during treadmill walking in water life support - Initial biomedical results from the ECLSS p 94 A93-20898 Microbiological methods for the water recovery systems Water Recovery Test and plans for testbed utilization Blood volume reduction counteracts fluid shifts in water [SAE PAPER 921210] p 295 A93-41386 test, revision 1.1

Aquatic biofilms and their responses to disinfection and

p 296 A93-41387

invading species

| SAE PAPER 921211 |

INASA-CR-1843901

NASA-CR-192188]

Space life support engineering program

p 64 N93-12966

p 141 N93-19039

p 118 A93-25206

p 381 A93-49293

Effect of water immersion on renal natriuretic peptide

(urodilatin) excretion in humans

Zero-G tife support for Space Station Freedom p 233 N93-22640	Pilot decision aiding for weapon delivery: A novel approach to fire control cueing using parallel computing	The character of spontaneous oculomotor activity in weightlessness and during readaptation
Alternative processes for water reclamation and solid	p 317 N93-28853	p 248 A93-35219
waste processing in a physical/chemical bioregenerative	Virtual interface applications for airborne weapons	The Inkubator-2 complex for studying the embryonic and
life support system p 311 N93-27721 Marshall Space Flight Center ECLSS technology	systems p 318 N93-28858 WEAPONS DELIVERY	postembryonic development of birds in conditions of
activities p 312 N93-27724	Pilot decision aiding for weapon delivery: A novel	weightlessness p 241 A93-35242
JSC ECLSS R/T program overview	approach to fire control cueing using parallel computing	Aminohydroxybutane bisphosphonate and clenbuterol prevent bone changes and retard muscle atrophy
p 312 N93-27725	p 317 N93-28853	respectively in tail-suspended rats p 271 A93-39703
Environmental control and life support systems p 314 N93-27858	WEATHER Flight director information and pilot performance in	Effects of long-term weightlessness on roll
Microbiological test results of the environmental control	instrument approaches	circularvection p 279 A93-39725
and life support systems vapors compression distillation	[AD-A258186] p 131 N93-17857	Membrane technology for zero gravity life support systems
subsystem recycle tank components following various	WEIGHT (MASS) A prospective evaluation of stress fractures/overuse	[SAE PAPER 921320] p 304 A93-41482
pretreatment protocols [NASA-CR-192570] p 359 N93-32354	injuries in a population of West Point cadets	Immunocytochemical localization of atrial natriuretic
Microbiological and corrosion analysis of three urine	[AD-A252427] p 13 N93-10709	factor (ANF)-like peptides in the brain and heart of the
pretreatment regimes with titanium 6A1-4V	WEIGHTLESSNESS	treefrog Hyla japonica - Effect of weightlessness on the distribution of immunoreactive neurons and cardiocytes
NASA-CR-192575 p 372 N93-32356 Optimization of 15 parameters influencing the long-term	Contractile properties of the calf triceps muscle in humans exposed to simulated weightlessness	p 377 A93-49561
survival of bacteria in aquatic systems	p 45 A93-15168	Spatial orientation in weightless environments
[NASA-CR-192571] p 359 N93-32365	Adaptation of skeletal muscles and physical work	p 388 A93-49563
WATER TEMPERATURE Effect of task complexity on mental performance during	capacity in a weightless environment p 38 A93-15527 Human vestibular function and weightlessness	Effects of spaceflight on the musculoskeletal system - NIH and NASA future directions p 383 A93-49568
immersion hypothermia p 211 A93-30279	p 84 A93-17531	Functional adaptation of different rat skeletal muscles
Life in hot springs and hydrothermal vents	Intraocular pressure in microgravity	to weightlessness p 377 A93-49575
p 243 A93-36559 WATER TREATMENT	p 85 A93-17539	Adaptation to the simulated stimulus rearrangement of
Microbiological concerns and methodological	Human autonomic responses to actual and simulated weightlessness p 85 A93-17540	weightlessness p 403 A93-55942 An overview of gravitational physiology
approaches related to bacterial water quality in	Acute hemodynamic response to weightlessness during	[NASA-TM-102849] p 35 N93-12319
spaceflight	parabolic flight p 86 A93-17547	Establishing laboratory standards for biological flight
[SAE PAPER 921232] p 297 A93-41406 Water purification, microbiological control, sterilization	Cardiovascular adaptation to spaceflight p 86 A93-17550	experiments
and organic waste decomposition using an electrochemical	Hypokinesia and weightlessness: Clinical and	[NASA-CR-184402] p 40 N93-12901 Bone loss and human adaptation to lunar gravity
advanced ozonation process	physiologic aspects Book	p 51 N93-14002
SAE PAPER 921234 p 297 A93-41408	[ISBN 0-8236-2415-3] p 87 A93-17897	Passive zero-gravity leg restraint
Process Control Water Quality Monitor for Space Station Freedom - Development update	Cardiovascular physiology in space flight p 93 A93-20654	[NASA-CASE-ARC-11882-1-CU] p 70 N93-14713 Exercise during long term exposure to space: Value of
[SAE PAPER 921264] p 299 A93-41434	Can the adult skeleton recover lost bone?	exercise during space exploration p 82 N93-16807
The application of filtration technology within the Water	p 93 A93-20656	Effect of aerobic capacity on Lower Body Negative
Processor on board Space Station Freedom [SAE PAPER 921270] p 300 A93-41440	The mechanical control system of bone in weightless spaceflight and in aging p 94 A93-20657	Pressure (LBNP) tolerance in females [NASA-TP-3298] p 128 N93-20318
Anaerobic treatment of organic wastes from Controlled	Formation of the hypokinetic syndrome in the digestive	Biomedical Monitoring and Countermeasures Facility
Ecological Life Support Systems	system under conditions of weightlessness	p 205 N93-22624
SAE PAPER 921272 p 301 A93-41442 Catalytic oxidation for treatment of ECLSS and PMMS	p 119 A93-25600 Influence of posture and prolonged head-down tilt on	Zero-G life support for Space Station Freedom
waste streams Process Material Management	cardiovascular reflexes p 161 A93-28677	p 233 N93-22640 Two techniques for measuring locomotion impact forces
Systems	Influence of ten-day head-down bedrest on human	during zero G
[SAE PAPER 921274] p 301 A93-41443	carotid baroreceptor-cardiac reflex function p 161 A93-28678	[NASA-TP-3305] p 217 N93-23410
A hybrid regenerative water recovery system for lunar/Mars life support applications	Response of adrenergic receptors to 10 days head-down	Physiological experiments within the project AustroMir p 219 N93-24354
SAE PAPER 921276 p 301 A93-41445	tilt bedrest p 162 A93-28679	Eye-head-arm coordination and spinal reflexes in
Effects of air bubble contamination in recirculating water	Effects of head-down tilt for 10 days on the compliance of the leg p 162 A93-28680	weightlessness p 236 N93-24362
loop SAE PAPER 921282 p 302 A93-41450	Cardiovascular response to lower body negative	Development and implementation of the MotoMir experiment on the Mir Space Station
Biotilm formation and control in a simulated spacecraft	pressure before, during, and after ten days head-down	p 220 N93-24363
water system - Three year results	tilt bedrest p 162 A93-28681 Pulmonary responses to lower body negative pressure	Japanese treefrog experiment onboard the Space
[SAE PAPER 921310] p 303 A93-41472 Use of sorption technology for treatment of humidity	and fluid loading during head-down tilt bedrest	Station Mir p 210 N93-24402 JPRS report; Science and technology. Central Eurasia:
condensate for potable water	p 162 A93-28682	Life sciences
JSAE PAPER 921312] p 303 A93-41474	Effect of head-down tilt bedrest (10 days) on lymphocyte	[JPRS-ULS-92-022] p 253 N93-25407
Experimental and theoretical study on membrane distillation using thermopervaporation	reactivity p 163 A93-28684 The effects of a 10-day period of head-down tilt on the	MAC to VAX connectivity: Heartrate spectral analysis system p 254 N93-25594
[SAE PAPER 921397] p 309 A93-41554	cardiovascular responses to intravenous saline loading	Pharmacokinetics and Pharmacodynamics in Space
ECLSS medical support activities	p 163 A93-28686	[NASA-CP-10048] p 333 N93-29502
[NASA-CR-184429] p 23 N93-12427 Ultraviolet disinfection technology assessment	Effect of head-down bedrest on blood/plasma density	WEIGHTLESSNESS SIMULATION Protection of Acanthopanax senticosus against
[PB92-222868] p 64 N93-12983	after intravenous fluid load p 163 A93-28687 Diuresis and natriuresis following isotonic saline infusion	suspension-induced bone loss in rats, p 2 A93-13528
Regenerable biocide delivery unit	in healthy young volunteers before, during, and after	Preliminary observation of influences of three forms of
[NASA-CASE-MSC-21763-1-SB] p 112 N93-18351 A membrane-based subsystem for water-vapor recovery	HDT p 163 A93-28688	simulated weightlessness on hemorheological characteristics in rabbit p 3 A93-13538
from plant-growth chambers	Head-down tilt bedrest: HDT'88 - An international	Effects of simulated microgravity (HDT) on blood
[NASA-CR-177602] p 149 N93-20065	collaborative effort in integrated systems physiology p 164 A93-28689	fluidity p 44 A93-14972
Study on environment control and life support technology p 149 N93-20413	Variable lymphocyte responses in rats after space	Rat cardiovascular responses to whole body suspension - Head-down and non-head-down tilt p 37 A93-14974
Utilization of high energy electron beam in the treatment	flight p 154 A93-28704	Changes of REG during 4h head-down bed-rest
of drinking and waste water	Thermoregulatory responses of rhesus monkeys during	p 46 A93-16075
DE92-642335 p 372 N93-32406 WATER VAPOR	spaceflight p 154 A93-28706	Balance and gait analysis after 30 days -6 deg bed rest
Portable life support system regenerative carbon dioxide	Skeletal muscle responses to unloading with special reference to man p 166 A93-28718	 Influence of lower-body negative-pressure sessions p 48 A93-16161
and water vapor removal by metal oxide absorbents	Cardiovascular physiology - Effects of microgravity	Zero-gravity underwater simulations for the Columbus
preprototype hardware development and testing	p 166 A93-28719	programme - Outcome of the first campaigns
[SAE PAPER 921299] p 303 A93-41464 Water reclamation technology development for future	Sperm motility under conditions of weightlessness	p 62 A93-17075 Human autonomic responses to actual and simulated
long range missions	p 156 A93-28730 Management of trauma and emergency surgery in	weightlessness p 85 A93-17540
[SAE PAPER 921351] p 306 A93-41510	space p 167 A93-28734	Method of selection of astronauts cardiovascular
Experimental and theoretical study on membrane distillation using thermopervaporation	Neurology of microgravity and space travel	regulative function under simulated weightlessness p 91 A93-19995
[SAE PAPER 921397] p 309 A93-41554	p 168 A93-28735	A physiological signal acquisition and processing system
A membrane-based subsystem for water-vapor recovery	Health in space - And on Earth p 156 A93-28738	for bed-rest laboratory p 103 A93-19998
from plant-growth chambers [NASA-CR-177602] p 149 N93-20065	The effects of prolonged weightlessness and reduced gravity environments on human survival	Effects of insulin and exercise on rat hindlimb muscles after simulated microgravity p 78 A93-20036
WEAPON SYSTEMS	p 214 A93-30773	Regional changes in muscle mass following 17 weeks
Combat Automation for Airborne Weapon Systems:	A free-fall flip-over response in rats after the flight	of bed rest p 93 A93-20039
Man/Machine Interface Trends and Technologies [AGARD-CP-520] p 317 N93-28850	onboard the Cosmos-936 biosatellite p 240 A93-35215	Increased orthostatic blood pressure variability after prolonged head-down tilt p 161 A93-28676
p 317 (430-2000)	p 240 7/00-002[5	p. 5.5.5. god 11540-40411 till p. 101 1150-20070

WETTING SUBJECT INDEX

Cardiopulmonary function during 10 days of head-down WORDS (LANGUAGE) Recommendations for mental workload measurement tilt bedrest in a test and evaluation environment p 162 A93-28683 Cognition and the brain Changes in vitamin A status following prolonged p 394 A93-52504 IAD-A2554831 p 59 N93-14788 immobilization (simulated weightlessness) Facilitation and interference in identification of pictures Hypobaric hypoxia as a correction and rehabilitation p 166 A93-28720 p 402 A93-55332 method in aviation medicine and words Simulated weightlessness and bone metabolism -The problem of the pilot's professional reliability IAD-A261484 p 260 N93-26356 p 410 A93-55334 Gravitational stimulation enhances insulin sensitivity WORK CAPACITY p 168 A93-28736 Operator workload predictions for the revised AH-64A The quality of an operator's work on a flight simulator Rotating-wall vessel coculture of small intestine as a under conditions of thermal discomfort workload prediction model, volume 1 prelude to tissue modeling - Aspects of simulated IAD-A2541981 p 30 N93-10261 p 45 A93-15172 p 171 A93-28765 microgravity Mental workload assessment in the cockpit: Feasibility Pharmacological means of stimulating the work capacity Effect of simulated weightlessness on microvessel of using electrophysiological measurements, phase 1 of flight personnel engaged in stressful activity [AD-A254138] p 25 N93-10662 permeability of various organs in rabbits p 45 A93-15173 p 199 A93-30438 KC-135 crew reduction feasibility demonstration Adaptation of skeletal muscles and physical work Vestibulo-oculomotor responses under conditions of capacity in a weightless environment p 38 A93-15527 simulation study. Volume 3: Test and evaluation p 251 A93-35256 p 30 N93-10713 immersion hypokinesia IAD-A253931 J Effects of a 1-yr stay at altitude on ventilation, metabolism, and work capacity p 92 A93-20028 Simulating reduced gravity - A review of biomechanical NASA Space Human Factors Program issues pertaining to human locomotion Investigation of individual and typological features of an INASA-TM-1080051 n 31 N93-10890 p 289 A93-41175 From pilot's associate to satellite controller's operator's nervous system under different work regimes p 32 N93-11922 Muscle glucose uptake in the rat after suspension with associate p 339 A93-43024 single hindlimb weight bearing p 326 A93-44178 Human performance in complex task environments: A Pre-adaptation to shiftwork in space Interaction of various mechanical activity models in p 386 A93-52403 basis for the application of adaptive automation [AD-A255067] regulation of myosin heavy chain isoform expression p 35 N93-12486 The problem of the pilot's professional reliability p 327 A93-44184 Operator workload predictions for the revised AH-64A p 410 A93-55334 Effects of two kinds of Chinese herb medicine on rabbit's workload prediction model. Volume 2: Appendixes A WORK-REST CYCLE ear microcirculation under simulated weightlessness through H Documentation of activity and rest of a U.S. National n 327 A93-44842 IAD-A2549391 p 63 N93-12545 Guard attack helicopter battalion p 9 A93-10338 The simulation of microgravity conditions on the ground Cognitive and affective components of mental workload: Sleep as a restorative process under extreme --- and biological effects of weightlessness p 89 A93-18291 Understanding the effects of each on human decision conditions p 375 A93-49207 making behavior Pre-adaptation to shiftwork in space p 99 N93-16783 Some qualitative and quantitative aspects of the p 386 A93-52403 Automatic information processing and high performance fast-rotating clinostat as a research tool --- for effects of Bright light delivery system IAD-A2584731 weightlessness on biological objects [NASA-CASE-MFS-28723-1] p 132 N93-18273 p 96 N93-17058 p 375 A93-49209 The effect of combat on the work/rest schedules and The effect of combat on the work/rest schedules and The fast rotating clinostat - A history of its use in fatigue of A-6 and F-14 aviators during Operation Desert fatique of A-6 and F-14 aviators during Operation Desert gravitational biology and a comparison of ground-based and flight experiment results p 376 A93-49212 Shield/Storm IAD-A2581461 p 122 N93-18292 LAD-A2581461 p 122 N93-18292 Modeling the dynamics of mental workload and human Effect of hindlimb unweighting on single soleus fiber Simulated sustained flight operations and performance. maximal shortening velocity and ATPase activity performance in complex systems Part 1: Effects of fatigue p 377 Á93-49294 AD-A2585531 p 135 N93-19956 p 266 N93-25859 IAD-A2610121 A simple hindlimb suspension apparatus Physiological indices of mental workload Engineman stress and fatigue: Pilot tests IAD-A2616921 p 398 A93-55168 p 260 N93-26391 I PRO3_175008 I p 351 N93-29675 Effect of insulin-like factors on glucose transport activity WORKLOADS (PSYCHOPHYSIOLOGY) Pilot decision aiding for weapon delivery: A novel p 399 A93-55458 in unweighted rat skeletal muscle Relationship between ERP and workload in manual approach to fire control cueing using parallel computing WETTING p 30 A93-13721 p 317 N93-28853 in Moistening of the substrate in microgravity Psychophysiological characteristics of the activity of Human capabilities and limitations p 319 N93-28863 p 135 A93-21906 flight personnel during training on VTOL aircraft awareness p 45 A93-15175 WHEAT Engineman stress and fatigue: Pilot tests p 351 N93-29675 Crop growth and associated life support for a lunar Psychophysiological stress research - Methodology and [PB93-175008] farm p 67 N93-13994 esults of an investigation involving air traffic controllers Application and validation of workload assessment Investigation of wheat coleoptile response to phototropic techniques HSBN-3-258-04585-21 p 97 A93-17971 Workload or situational awareness? TLX vs. SART for IAD-4264575 p 366 N93-32012 stimulations INASA-CR-1921571 WORKSTATIONS aerospace systems design evaluation --- Task Load p 114 N93-18608 Growing wheat to maturity in reduced gas pressures [NASA-CR-193245] p 277 N93-29216 Training for avionics evaluation p 175 A93-27139 p 277 N93-29216 I AIAA PAPER 92-40681 p 24 A93-11254 The effect of type of task, degree of integration, and WHEELCHAIRS A physician's workstation designed for NASA and modality on the performance of concurrent tasks Wheels for wheelchairs and the like earth-based applications p 175 A93-27140 p 189 A93-28695 p 106 N93-17042 [NASA-CASE-MFS-28632-1] Visual search in virtual environments CREWCUT - A new tool for predicting human p 233 A93-33450 Platform stair lift performance in conceptual systems p 178 A93-27179 [NASA-CASE-MFS-28772-1] The General Purpose Work Station, a spacious p 353 N93-29845 CREWCUT - A tool for modeling the effects of high WHEELS workload on human performance p 178 A93-27180 microgravity workbench Wheels for wheelchairs and the like Testing a subjective metric of situation awareness |SAE PAPER 921394| p 309 A93-41552 NASA-CASE-MFS-28632-1] p 106 N93-17042 Contribution of the analysis of ocular activity [NASA-CASE-MFS-28632-1] p 178 A93-27183 Human factors applications in control systems design Cardiorespiratory measures of continuous manual performance workload during for ground testing of turbine engines (complementary to the electroencephalographic analysis) p 409 A93-54410 p 160 A93-27192 Advanced satellite workstation: An integrated workstation environment for operational support of satellite to the detection of low vigilance in instances of pilotin Some biochemical and functional characteristics of body p 127 N93-19708 a vehicle state during multihour operator activity under extreme p 33 N93-11941 p 161 A93-27686 system planning and analysis WHITE NOISE conditions Passive zero-gravity leg restraint [NASA-CASE-ARC-11882-1-CU] Classification of complex sounds Assessing pilot workload - Why measure heart rate, HRV p 70 N93-14713 p 122 N93-18223 and respiration? p 168 A93-28741 (AD-A2584051 Wide-bandwidth Working hours and fatigue of Japanese flight attendants high-resolution search WIDE ANGLE LENSES extraterrestrial intelligence p 171 A93-28762 Evaluation of lens distortion errors in video-based motion [NASA-CR-191618] p 110 N93-15825 analysis Investigation of hemodynamics and Treatment of human-computer interface in a decision sympatheticoadrenal system activity in air traffic controllers p 258 N93-25736 INASA-TP-32661 support system p 247 A93-35209 during their work WIND (METEOROLOGY) [DE93-002281] Adaptation of young pilots to new conditions of their p 237 N93-24502 Windblast tolerance of human thorax and abdomen work (Social-psychological aspects) p 256 A93-35220 WORMS p 91 A93-19992 Caenorhabditis elegans - A model system for space Occupational health problems in aviation medicine WIND PROFILES p 80 A93-20665 p 252 A93-36743 biology studies Transfer effects of scene content and crosswind in WOUND HEALING Diagnostics and prophylaxis of adverse psychological p 62 A93-15665 landing instruction Wound healing and connective tissue metabolism: The states in marine aviation flight personnel WINTER p 257 A93-36744 role of hyperbaric oxygen therapy Sustaining health and performance in the cold: IAD-A2624831 p 285 N93-28759 light deck automation and pilot workload Environmental medicine guidance for cold-weather ISAE PAPER 9211321 p 291 A93-41320 operation Prevention of cumulative trauma disorders Failure mode workload theory and planning [AD-A254328] p 23 N93-12145 p 338 N93-31138 IPB93-1883321 A93-42848 p 349 WIRELESS COMMUNICATION A comparison of two scoring procedures with the NASA The locator system for wandering individuals task load index in a simulated flight task X p 31 N93-11649 [NASA-TM-104754] p 349 A93-42849 WIRING Respiration curves as an index of pilot workload p 332 A93-45320 Potential human health effects associated with power X RAY APPARATUS X Ray System, Lightweight Medical (XRSLM) frequency electric and magnetic fields A method for predicting the work load of a flight engineer [AD-A258159] p 221 N93-24590 p 123 N93-18295 [PB93-132678] engaged in counteracting failures of functional systems

p 364 A93-45688

p 394 A93-52406

Human locomotion and workload for simulated lunar and

X RAY IMAGERY

important for image compression

Digital mammography, cancer screening: Factors

p 221 N93-24551

of a transport aircraft

Martian environments

WORD PROCESSING

The role of spatial attention in visual word processing

p 339 A93-44922

ZOOPLANKTON SUBJECT INDEX

X RAY IRRADIATION

Roentgenophosphene as an indicator of the radiation excitability of the central nervous system

p 325 A93-43078

X RAY SOURCES

X Ray System, Lightweight Medical (XRSLM) [AD-A258159] p 123 N93-18295



YAW

Influence of gravitoinertial force level on vestibular and visual velocity storage in yaw and pitch

p 165 A93-28701

A microfermentation test for the rapid identification of yeasts p 156 A93-28733
Relative resistance of biofilms and planktonic cells of common molds and yeasts to antimicrobials [SAE PAPER 921212] p 273 A93-41388
Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p 209 N93-23369
'IELD'

YIELD

Modification of yield and chlorophyll content in leaf lettuce by HPS radiation and nitrogen treatments
p 328 A93-44880

Z

ZEOLITES

Moistening of the substrate in microgravity
p 135 A93-21906

ZOOPLANKTON

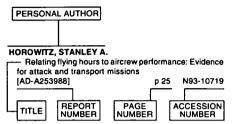
How do zooplankton feed? A critical microgravity experiment p 158 N93-21097
Gravity as a factor in the orientation and vertical migration of marine zooplankton p 158 N93-21098

PERSONAL AUTHOR INDEX

AEROSPACE MEDICINE AND BIOLOGY / A Continuing Bibliography 1993 Cumulative Index

January 1994

Typical Personal Author Index Listing



Listings in this index are arranged alphabetically by personal author. The title of the document is used to provide a brief description of the subject matter. The report number helps to indicate the type of document (e.g., NASA report, translation, NASA contractor report). The page and accession numbers are located beneath and to the right of the title. Under any one author's name the accession numbers are arranged in sequence.

AALTO, HEIKKI

Postural stabilization on a moving platform oscillating p 252 A93-35497 at high frequencies

AARON, ELIZABETH A.

Effect of chronic hypoxia on hypoxic ventilatory response in awake rats p 323 A93-42187 AASLID. R

Cerebral autoregulation in microgravity

p 173 N93-21112

АВВОТТ, КАТНУ Н.

Human-centered automation and Al - Ideas, insights, and issues from the Intelligent Cockpit Aids research

ABBOTT, TERENCE S.

Evaluation of conformal and body-axis attitude information for spatial awareness p 229 A93-30070 ABERNETHY, M. K.

Flight physiology - Clinical considerations

p 164 A93-28690

ABOOD, DORIS A.

Smoking status and body composition, exercise, dietary intake, and alcohol/caffeine consumption [AD-A250648] p 23 N93-11893

ABOUSAHL, ISABELLE

Hypoxia-induced downregulation of beta-adrenergic p 37 A93-14973 receptors in rat heart

ABOWD, GREGORY D.

Formal aspects of human-computer interaction p 66 N93-13909

ABRAMOV, M. M.

Early andrological effects in rats under the combined effect of irradiation and vibration p 242 A93-35263 p 242 A93-35263 ACHESON, KEVIN

Protein absorption and energy digestibility at high

altitude p 115 A93-21683 ACKERMAN P L

Predicting individual differences in complex skill acquisition - Dynamics of ability determinants p 181 A93-28731

ACKLES, KENNETH N.

Bibliography of the Biosciences Division: 1986 to IDCIEM-92-201 p 209 N93-23343

ACWORTH, IAN N.

Dopamine release in rat striatum - Physiological coupling to tyrosine supply p 152 A93-27050 Effects of systemic L-tyrosine on dopamine release from

rat corpus striatum and nucleus accumbens p 201 A93-32118

Tyrosine - Effects on catecholamine release p 204 A93-33038

ADAM, SUSAN C.

Operational space human factors - Methodology for a

ISAE PAPER 9211561 p 293 A93-41339

ADAMIAN, TS. I.

The effect of cortical vestibular area stimulation on the activity of the neurons of lateral vestibular nuclei during p 2 A93-12863 vibration

ADAMS, ALAN

Environmental control and life support system p 311 N93-27718

ADAMS, GREGORY R.

Magnetic resonance imaging and electromyography as dexes of muscle function p 44 A93-14975 indexes of muscle function Mapping of electrical muscle stimulation using MRI

ADAMS, JOHN C.

Emergence of telerobotic control enhancement from research in machine autonomy p 183 A93-27028

ADAMS, RICHARD J.

How expert pilots think: Cognitive processes in expert decision making [DOT/FAA/RD-93/9] p 288 N93-27103

ADELMAN, LEONARD

Real-time expert system interfaces, cognitive processes, and task performance - An empirical assessment p 394 A93-52503

ADNAN, SARMAD

Testbed for remote telepresence research p 193 A93-29135

ADVANI, S. K.

What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment [AIAA PAPER 93-3561] p 406 A93-52661

AGADZHANIAN, N. A.

Functional state of the vegetative nervous system in women undergoing high-altitude readaptation to 760 m above sea level adaptation and p 44 A93-15165

AGADZHANIAN, S. R.

The effect of cortical vestibular area stimulation on the activity of the neurons of lateral vestibular nuclei during vibration p 2 A93-12863

AGAPOV. I. V.

Control of the development of occupationally important qualities with the aim of improving flight-personnel training p 257 A93-35249

AGELIDIS, A.

Allergic and nonallergic rhinitis in Greek pilots p 21 N93-11317

AGGARWAL, HANS

Comet impacts and chemical evolution on the bombarded earth p 109 A93-17980 AGNEW, JAMES W.

Seasonal effects on human physiological adaptation factors, thermotolerance and plasma fibronectin p 47 A93-16157

AGOSTI, STEVEN J.

Effects of hypoxemia at sea level and high altitude on sodium excretion and hormonal levels p 8 A93-10332

AGRAWAL, SUNIL K.

Motion planning of a dual-arm free-floating manipulator with inertially fixed base [AIAA PAPER 93-3864] p 393 A93-51450

AGRAWALA, ASHOK

Architecture of autonomous systems p 266 N93-26047 INASA-CR-1929741

AGUADO, M. T.

Future approaches to vaccine development single-dose vaccines using controlled-release delivery systems

p 20 N93-11310

AHEARN, D. G.

Relative resistance of biofilms and planktonic cells of common molds and yeasts to antimicrobials p 273 A93-41388 |SAE PAPER 921212|

AHMED, NAGIN

Computerized task battery assessment of cognitive and performance effects of acute phenytoin motion sickness p 211 A93-30278

AHRENS, THOMAS J.

The fate or organic matter during planetary accretion -Preliminary studies of the organic chemistry of experimentally shocked Murchison meteorite

p 110 A93-17984

AINE, C. J.

Functional MRI studies of human vision on a clinical imager [DE92-017448]

n 49 N93-12566

AIRAPETIAN, SINERIK N.

Ion transport across membranes under exposure of the organism to ionizing radiation

p 243 A93-35679 [ISBN 5-12-001601-4] AIRENTI, GABRIELLA

Ontology of mind, subjective ontology, and the example of temporal expressions [REPT-92-018]

p 26 N93-11212

AIUTI, FERNANDO

Sitent HIV infection p 16 N93-11293

AIZIKOV, G. S.

A free-fall flip-over response in rats after the flight onboard the Cosmos-936 biosatellite

p 240 A93-35215 reaction during free Turning-over fall labyrinthectomized rats after a flight on the Cosmos 936 p 241 A93-35246

AJJARAPU, SUNDARA R. M.

Use of sorption technology for treatment of humidity condensate for potable water

|SAE PAPER 921312| p 303 A93-41474

AKERS, CAROLYN P.

Minitron II system for precise control of the plant growth environment p 357 A93-46470 The Minitron system for growth of small plants under p 358 A93-46471 controlled environment conditions AKERS, S. W.

Minitron II system for precise control of the plant growth p 357 A93-46470 environment

AKERS, STUART W.

The Minitron system for growth of small plants under p 358 A93-46471 controlled environment conditions AKESSON, MICAEL

Reduced voluntary non-visual suppression of the vestibulo-ocular reflex gain during nitrous oxide narcosis p 7 A93-10329

AKIMOV, S. N.

Preclinical cardiovascular and neurological occupation-related pathological symptoms in helicopter nilots p 91 A93-18416

AKIN, DAVID L.

Neutral buoyancy simulation of space telerobotics p 185 A93-27038 operations AKOEV, G. N.

The effect of low-intensity electromagnetic millimeter-wave radiation on the rat cardiovascular p 2 A93-12861 AKOPIAN. N. S.

The response of medullar respiratory neurons to the stimulation of the amygdaloid nuclei under hypoxia p 2 A93-12860

AKSE, JAMES R.

Catalytic oxidation for treatment of ECLSS and PMMS waste streams |SAE PAPER 921274| p 301 A93-41443

ALAMELDIN, TAREK

Operator/system communication -An optimizing decision tool p 101 A93-19104

ALBERS, H. E. Neurochemical control of circadian rhythms

| AD-A255054 | p 50 N93-13116

ALBERTS, THOMAS E.

Dynamic analysis to evaluate viscoelastic passive damping augmentation for the Space Shuttle Remote Manipulator System p 28 A93-12222

ALBRECHT-BUEHLER, GUENTER

ALBRECHT-BUEHLER, GUENTER ANDRES, ROBERT O. AMATO, IVAN In search of the human touch The simulation of microgravity conditions on the Adaptation to transient postural perturbations p 102 A93-19256 INASA-CR-1909591 around p 375 A93-49207 AMBLARD, P. ALBRECHT, R. ANDRIENKO, IU. I. Design and preliminary testing of a membrane based Development and implementation of the MotoMir water recycling system for European manned space experiment on the Mir Space Station p 220 N93-24363 [SAE PAPER 921396] p 309 A93-41553 ALCON, J. L. GARCIA AMIDON, GORDON L. An epidemiological study in SAF's pilots ejections Effects of gravity on gastric emptying, intestinal transit, p 143 N93-19699 p 85 A93-17543 and drug absorption ALCON, JOSE L. GARCIA AMIT, DANIEL J. Objective improvements obtained by control of diet and ANHOLT, ROBERT R. Conversion of temporal correlations between stimuli to physical training in Spanish Air Force fighter pilots Primary events in offactory reception [AD-A260562] p patial correlations between attractors p 369 N93-32258 PREPRINT-856 p 96 N93-16962 ALDASHEV, ALM'S A. ANISIMOV. O. I. Constraints on learning in dynamic synapses Functional and structural adaptation of the yak I PREPRINT-890 I p 100 N93-17026 pulmonary circulation to residence at high attitude Effective neurons and attractor neural networks in p 326 A93-44181 ANISIMOVA, I. V. cortical environment ALEKIN A.O. Engineering and technical support of experiments on PREPRINT-8291 p 82 N93-17214 board the Cosmos-2044 biosatellite p 77 A93-18419 AMO, KARL ANSARI, RAFAT R. ALEKSANDROVA, N. P. Water reclamation technology development for future long range missions An analysis of the respiratory muscle fatigue under ISAE PAPER 921351 | resistive loading when breathing gas mixtures containing p 306 A93-41510 ANSPAUGH, LYNN different amounts of oxygen p 76 A93-18299 AMOROSO, MICHAEL T. ALEKSEEVA, G. S. Hyperbaric treatment p 360 N93-31454 The Inkubator-2 complex for studying the embryonic and Daity exercise routines p 360 N93-31455 postembryonic development of birds in conditions of ANTOL, PAUL J. AMREIN, BRUCE E. weightlessness p 241 A93-35242 Improved head support stand adjustable by compoundturnbuckle ANTON, D. J. The state of the endocrine system of rats of different p 55 N93-15249 LAD-D0153841 age under conditions of immobilization stress and biomos ANAND, INDER S. p 242 A93-35671 Body fluid compartments, renal blood flow, and ALEXANDER, HAROLD L. hormones at 6,000 m in normal subjects Kalman-filter-based machine vision for controlling p 281 A93-41125 free-flying unmanned remote vehicles ANAND, SULEKHA p 135 A93-22916 ANTONELLI, D. Alternating prism exposure causes dual adaptation and An operational evaluation process for long-duration Vision navigator for free-flying robots generalization to a novel displacement p 183 A93-27025 mission habitats in space p 388 A93-51959 - Robot free-flyers in space extravehicular activity ANTONENKO, L. V. p 193 A93-29141 ANASHKIN, O. D. Functional state of the cardiovascular system of the Human locomotion and workload for simulated lunar and cosmonauts of the sixth primary mission on the Mir ANTONIÓ, CHUCK p 394 A93-52406 Martian environments p 249 A93-35238 ALEXANDER, JOANNA R. station ANDARY, JAMES F. - Visual data interpretation; Proceedings of the Meeting, San Jose, CA, Feb. 10-11, 1992 Characteristics and requirements of robotic manipulators ANTONIO, JOSEPH C. p 182 A93-27003 (SPIE-1668) CATS EYES adjustment procedures for space operations ALEXANDRE C. Safety issues of manipulator systems under computer LAD-A2640691 p 192 A93-29121 ANTONOVA, G. M. Microgravity and bone adaptation at the tissue level control p 170 A93-28761 ANDERSEN, DALE ALFEROVA, I. V. Exobiology: The NASA program ANDERSEN, GEORGE J. p 114 N93-18561 Functional state of the cardiovascular system of the ANTRAZI, SAMI S. cosmonauts of the sixth primary mission on the Mir Active control versus passive observation in a simulated p 249 A93-35238 p 179 A93-27196 ALLEBACH, JAN P. The impact of visual noise on spatial orientation Human vision, visual processing, and digital display II; Proceedings of the Meeting, San Jose, CA, Feb. 27-Mar. ANTUNANO, M. J. ANDERSEN, H. T. Portable equipment developed to estimate energy limits ANTUNANO, MELCHOR J. I SPIE-1453 I p 137 A93-25363 expenditure by simultaneous recording of heart rate and ALLEN, EARL R. body position p 368 N93-32243 Active synthetic soil
[NASA-CASE-MSC-21954-1-NP] Changes in food and energy intake in military aircrew p 368 N93-32246 p 114 N93-19054 ALLEN, KATHERINE Changes in some lifestyle parametres in Norwegian Gravitational Biology Facility on Space Station: Meeting pilots as students, and after 6 and 12 years of service the needs of space biology p 206 N93-22625 p 370 N93-32261 medicine ANDERSEN, T. A. E. [AD-A262908] The lunar community church: Contributions to lunar living and to evolution of ethical and spiritual thinking The USO-concept applied to a biological model ANZALONE, G. p 210 N93-24379 experiment p 57 N93-14020 Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme ALNAES, E. Operational use of contact lenses by military aircrew p 226 N93-24382 [AGARD-AG-334] p 95 N93-15824 specific IgE ALONSO, C. Technology test results from an intelligent, free-flying robot for crew and equipment retrieval in space Cardiovascular Risk Factors (CVRF) in Spanish pilots p 184 A93-27037 with coronary artery disease demonstrated by angiographic p 362 N93-32253 An experiment in vision based autonomous grasping studies within a reduced gravity environment ALPATOV, A. M. p 193 A93-29137 Thermoregulatory responses of rhesus monkeys during ANDERSON, GLEN p 154 A93-28706 spaceflight Gloved operator performance study ALPERT, NATHANIEL M. Inhibition of prostaglandin E2 synthesis, DNA synthesis, LAD-A2568941 p 104 N93-16048 Cognition in the brain: Investigations using positron ANDERSON, PATRICK L. and alterations in actin cytoskeleton emission tomography Daily exercise routines p 360 N93-31455 [AD-A254280] p 14 N93-10765 APPELT, DOUGLAS ANDES, ROBERT C., JR. ALSTON, JIM A. Interpretation as abduction [AD-A259608] Specification of adaptive aiding systems Continued results of the seeds in space experiment p 314 N93-27927 AD-A263071] p 330 N93-29703 ANDINO, AUREO F. ALTENBERG, BARBARA H. Human factor considerations for the First Lunar Oxygen production on the Lunar materials processing Outpost p 315 N93-27967 [AIAA PAPER 93-1014] p 223 A93-30928 ALTIERI, P. A. ANDRE, ANTHONY D. Aging, expertise, and narrative processing S-R compatibility effects with orthogonal stimulus and

response dimensions

p 105 N93-16699

Informative value of the rerespiration method for evaluating the functional resources of the cardiorespiratory system during the simulation of certain flight factors

p 248 A93-35222

Efficiency of using iterative hypoxic hypercapnic stimuli for enhancing cardiorespiratory reserves under the effect of radial accelerations p 249 A93-35244

p 255 N93-25944

Ultrasonic location of gas bubbles in the vascular bed of a person working in a space suit p 262 A93-35239

The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216

A fiber optic probe for the detection of cataracts p 254 N93-25593

Potential health risks from postulated accidents involving the Pu-238 RTG on the Ulysses solar exploration p 43 A93-13774

Perfusion of the visual cortex during pressure breathing at different high-G stress profiles p 401 A93-55167

Can injury scoring techniques provide additional information for crash investigators? p 125 N93-19663 Is axial loading a primary mechanism of injury to the lower limb in an impact aircraft accident?

p 125 N93-19664

p 345 A93-42114

Cardiac bioelectric activity in healthy men during a 370-day head-down tilt experiment p 247 A93-35208

USAF/USN fixed wing night vision - The mission p 227 A93-30055

p 353 N93-29924

Estimation of the number of operators and their efficiency in flight vehicle control p 193 A93-29696

Kinematics and control of a fully parallel force-reflecting

hand controller for manipulator teleoperation p 364 A93-45598

Thermal convergence fails to predict heat tolerance p 8 A93-10331

Heat stress in protective clothing - Validation of a computer model and the Heat-Humidity Index (HHI)

p 88 A93-18040 Bibliographic guide to publications in aerospace medicine and related topics p 252 A93-35500 Index of international publications in aerospace

p 284 N93-28306

In vivo and in vitro diagnosis of allergic respiratory disease during screening procedures in the Italian Navy: Comparative evaluation of a recent quantitative automatized enzyme immunoassay method to dose p 21 N93-11314

27 years armed forces aerospace pathology and toxicology in the Federal Republic of Germany: Development, current status, trends and challenges

p 126 N93-19696

Effect of dexamethasone on proliferating osteoblasts -

p 155 A93-28728

p 179 A93-27194

p 230 A93-30454

Compatibility and consistency in display-control systems

- Implications for aircraft decision aid design

p 225 N93-24227

Aminohydroxybutane bisphosphonate and clenbuterol prevent bone changes and retard muscle atrophy respectively in tail-suspended rats p 271 A93-39703

Analysis of disease progression from observations of US Air Force active duty members infected with the Human Immunodeficiency Virus: Distribution of AIDS survival time from interval censored observations

p 17 N93-11297

AMALBERTI, R.

the last decade

p 180 A93-28724

p 134 N93-19682

Cognitive factors in the air events of the Air Force during

ARAI, AKIRA

Study of the whole-body response to vibration: The effect of repeated exposure to the long-term whole-body p 9 A93-11286 vibration II

ARATOW, M.

Direct measurement of capillary blood pressure in the human lip p 279 A93-40550 Intramuscular pressure and electromyography as indexes of force during isokinetic exercise

p 380 A93-49291

ARATOW, MICHAEL

Transcapillary fluid responses to lower body negative oressure p 380 A93-49292

ARBEILLE, P.

Cardiovascular response to lower body negative pressure before, during, and after ten days head-down p 162 A93-28681 Head-down tilt bedrest: HDT'88 - An international

collaborative effort in integrated systems physiology p 164 A93-28689

ARDITI, ARIES

Human visual performance model for crewstation p 182 A93-26887 design

Visualization and modeling of factors influencing visibility in computer-aided crewstation design |SAE PAPER 921135| p 292 A93-41323

AREND, H.

The European astronauts training programme p 226 N93-24346

AREND, LAWRENCE E., JR.

Perception of lightness and brightness in complex patterns

AD-A2540931 p 25 N93-10658

ARLINGHAUS, H. F.

Development of resonance ionization spectroscopy for genome mapping and DNA sequencing using stable isotopes as DNA labels

[DE93-007815] p 246 N93-26587

ARMICHEV, A. V.

Validation of the use of the helium-neon laser in the medical rehabilitation of patients with atrophy

p 248 A93-35228

ARMOGIDA, F.

A systems approach to the advanced aircraft p 146 N93-19776 man-machine interface

ARMSTRONG, J.

Operation Everest II - Spirometric and radiographic changes in acclimatized humans at simulated high p 383 A93-49574

ARMSTRONG, KAREM

Conceptual design of a fleet of autonomous regolith throwing devices for radiation shielding of lunar habitats [NASA-CR-192078] p 108 N93-17806

Conceptual design of a fleet of autonomous regolith throwing devices for radiation shielding of lunar habitats [NASA-CR-192030] p 139 N93-18018 p 139 N93-18018

ARMSTRONG, STEPHEN D.

C-141 aircrew sleep and fatigue during the Persian Gulf p 371 N93-32265 conflict

ARMSTRONG, STEPHEN H.

Subjective mood and fatigue of C-141 crew during Desert Storm p 370 N93-32264

ARNDT, CRAIG M.

Task allocation and automation in design and operation of man-machine systems p 348 A93-42842 Failure mode workload theory and planning

p 349 A93-42848

ARNETT, J. L.

Effect of task complexity on mental performance during immersion hypothermia p 211 A93-30279 ARNOLD K.

Aimed arm movements under changed gravity

p 193 N93-21113

AHNOLD, KARIN E.

Accuracy of aimed arm movements in changed gravity p 56 A93-16159

ARP, LARRY D.

Concrete lunar base investigation p 107 N93-17445

ARTAMONOVA, N. P. Cardiac bioelectric activity in healthy men during a

370-day head-down tilt experiment p 247 A93-35208 ARTAUD. P

Contribution of the analysis of ocular activity (complementary to the electroencephalographic analysis) to the detection of low vigilance in instances of piloting a vehicle p 127 N93-19708

ARTHUR, D. C.

Success rate analysis of Navy SERGRAD Flight p 56 A93-16152

ASAKURA, MAKOTO

Research of a free-flying telerobot. IV - Development p 411 A93-56254 of dual-arm manipulation system Research of a free-flying telerobot. V - Handling a target with multi-arms p 411 A93-56255

ASANO, K.

ASHIDA, AKIRA

Effects of high altitudes on finger cooling test in Japanese and Tibetans at Qinghai Plateau p 382 A93-49560

p 148 N93-19955

p 181 A93-26881

A trade study method for determining the design arameter of CELSS subsystems

p 295 A93-41374 ISAF PAPER 9211981 Experimental and theoretical study on membrane distillation using thermopervaporation

ISAE PAPER 921397 | p 309 A93-41554

ASKEW, GREGORY K.

Effectiveness of NASA 1032 and 1035 and Air Force 1030 and 1034 units in protection against cold water

hypothermia [AD-A255120] Ventilation loss in the NASA Space Shuttle crew protective garments: Potential for heat stress

AD-A2585521 ASSENHEIM HARRY M

Large-screen-projection, avionic, and helmet-mounted displays; Proceedings of the Meeting, San Jose, CA, Feb. 26-28, 1991 ISPIE-14561

ASSMUS, BERNHARD Ferrous iron oxidation by anoxygenic phototrophic p 271 A93-39280 bacteria

ASUKATA, ICHIRO

Mortality experience of cockpit crewmembers from Japan Airlines p 385 A93-52306

ATASSI, M. Z.

Measuring the metastatic potential of cancer cells p 244 N93-25566

ATEN, LAURIE A.

A systems approach to water recovery testing for space life support - Initial biomedical results from the ECLSS Water Recovery Test and plans for testbed utilization |SAE PAPER 921210| p 295 A93-41386

ATKINSON, COLIN

Mission and Safety Critical (MASC): An EVACS simulation with nested transactions

I NASA-CR-192295 J p 149 N93-20314

ATKOV, OLEG IU.

Hypokinesia and weightlessness: Clinical and physiologic aspects p 87 A93-17897

[ISBN 0-8236-2415-3] ATOCHIN, D. N.

Local blood supply of the brain of guinea pigs developing p 76 A93-18293 the high-pressure neural syndrome The state of brain oxygenation in guinea pigs breathing p 76 A93-18294 high-density gas mixtures

ATREYA, SUSHIL K.

Giant planets: Clues on current and past organic chemistry in the outer solar system p 113 N93-18551 ATWATER, J. E.

An on-line water quality monitor for Space Station p 364 A93-46801 Freedom

ATWATER, JAMES E.

Regenerable Microbial Check Valve - Life cycle tests p 303 A93-41478 |SAE PAPER 921316|

Regenerable biocide delivery unit, volume 1 p 274 N93-27122 INASA-CR-185701-VOL-11 Regenerable biocide delivery unit, volume 2 p 275 N93-27360 [NASA-CR-185701-VOL-2]

Temporal analysis of the October 1989 proton flare using p 216 A93-32785 computerized anatomical models

ATWELL, WILLIAM

Radiological assessment for Space Station Freedom INASA-TM-1047581 p 128 N93-20303

AUCOIN, PASCHAL J., JR.

Person-like intelligent systems architectures for robotic

shared control and automated operations p 191 A93-29113

AUGUSTINE, MARGRET Life systems for a lunar base

p 66 N93-13992 AULDS, J. M. Quick-disconnect harness system for helmet-mounted

displays

p 228 A93-30065 AUSONI, SIMONETTA Myosin and troponin changes in rat soleus muscle after hindlimb suspension p 273 · A93-41124

AUTY, DAVID

Mission and Safety Critical (MASC): An EVACS simulation with nested transactions p 149 N93-20314 INASA-CR-1922951

AVAKOV, V. I.

A procedure for estimating the variables of the working-condition space of a man-machine system for the control of a moving object p 364 A93-45685

Monitoring of cardiovascular parameters during the AustroMir space flight p 220 N93-24367 AYATA, HARUKI

Conceptual study of manned lunar surface site

p 316 N93-28031

AYLWARD, JUDY M.

Nutrition and hydration status of aircrew members consuming the food packet, survival, general purpose, improved during a simulated survival scenario [AD-A258744] p 128 N93-20384

AZARBAYEJANI, ALI J.

Kalman-filter-based machine vision for controlling free-flying unmanned remote vehicles

p 135 A93-22916 Vision navigator for free-flying robots

p 183 A93-27025

AZARENKO, V. V.

A comparative analysis of the bone marrow cell composition in rats following a long-duration continuous or interrupted exposure to a hypogeomagnetic field

AZHAEV, A. N.

The quality of an operator's work on a flight simulator under conditions of thermal discomfort

p 45 A93-15172

p 292 A93-41323

AZUETA, STEVEN

[SAE PAPER 921135]

Human visual performance model for crewstation p 182 A93-26887 Visualization and modeling of factors influencing visibility in computer-aided crewstation design

В

BABAEV. B.

Eye-head-arm coordination and spinal reflexes in p 236 N93-24362 weightlessness

BABKOFF, HARVEY

Sleep inertia: Is there a worst time to wake up?
[AD-A256602] p 52 N93-14240

Development and implementation of the MotoMir experiment on the Mir Space Station

p 220 N93-24363 BACK, L. H. Wall shear stress estimates in coronary artery constrictions p 170 A93-28759

BACKES, PAUL Telerobot control mode performance assessment

[AAS PAPER 92-053] p 392 A93-50593 BÀCKES, PAUL G.

Ground-remote control for space station telerobotics with time delay [AAS PAPER 92-052] p 392 A93-50592

BACKS, RICHARD W.

Cardiorespiratory measures of workload during continuous manual performance p 160 A93-27192 p 160 A93-27192 BADA, JEFFREY L.

The origin of the polycyclic aromatic hydrocarbons in p 110 A93-17983 Comment on 'Summary and implications of reported amino acid concentrations in the Murchison meteorite' by E. L. Shock and M. D. Schulte p 412 A93-53294 BADDELEY, A.

The central executive component of working memory BADHWAR, G. D.

Depth-dose equivalent relationship for cosmic rays at various solar minima

p 391 A93-49564 BADHWAR, GAUTAM D. Katz model prediction of Caenorhabditis elegans

nutagenesis on STS-42 I NASA-TM-43831 p 50 N93-13023 Radiological assessment for Space Station Freedom

[NASA-TM-104758]

BADLER, NORMAN Human-like agents with posture planning ability

p 192 A93-29118

BADLER, NORMAN I.

Modeling clothed figures

[AD-A257037] p 71 N93-15363 BADR. M. S.

Determinants of poststimulus potentiation in humans

during NREM sleep p 78 A93-20034 BAERTSCH, PETER

Interactions between Hb, Mg, DPG, ATP, and CI determine the change in Hb-O2 affinity at high altitude p 279 A93-41117

BAEVSKII, R. M.

Data bank establishment principles as applied to the problem of physiological norms in space medicine

BAGDIGIAN, ROBERT M.

|SAE PAPER 921117|

Phase III Integrated Water Recovery Testing at MSFC Closed hygiene and potable loop test results and lesson learned

R-3

p 290 A93-41309

p 128 N93-20303

BAGGERUD C

The USO-concept applied to a biological model experiment p 210 N93-24379

BAGGS RAYMOND

Potential health hazards from thermal degradation events - Particulate vs. gas phase effects ISAE PAPER 9213881 p 282 A93-41546

BAGIAN, JAMES P.

First intramuscular administration in the U.S. space

program p 84 A93-17534 Cerebral blood flow - Comparison of ground-based and spaceflight data and correlation with space adaptation syndrome p 87 A93-17553 Treatment efficacy of intramuscular promethazine for

Space Motion Sickness p 212 A93-30283 Cerebral blood velocity and other cardiovascular responses to 2 days of head-down tilt

p 280 A93-41122

BAHRAMIAN, B.

An innovative method for hand protection from extreme cold using heat pipe p 235 N93-24128

[AD-A259720]

BAI, JING

Study of the relationship between therapeutic effects and control parameters of ECP using a simulation method p 11 A93-13716

BAL YANGIANG

Effect of DL-DOPA, L-5-HTP and pentobarbital sodium on brain encephalofluctuographs in rats

p 2 A93-13530

BAIN, J. B.

Influence of temperature and metabolic rate on work performance with Canadian Forces NBC clothing

p 389 A93-49218 Continuous vs. intermittent work with Canadian forces NBC clothing p 389 A93-49219

BAINS, ELIZABETH M.

Human-in-the-loop evaluation of RMS Active Damping Augmentation

[AIAA PAPER 93-3875] p 393 A93-51460

BAINUM, PETER M.

Centralized, decentralized, and independent control of a flexible manipulator on a flexible base

p 231 A93-31517

BAISCH, F.

Effects of simulated microgravity (HDT) on blood p 44 A93-14972 fluidity Increased orthostatic blood pressure variability after prolonged head-down tilt p 161 A93-28676

Response of adrenergic receptors to 10 days head-down p 162 A93-28679

Cardiovascular response to lower body negative pressure before, during, and after ten days head-down tilt bedrest p 162 A93-28681

Pulmonary responses to lower body negative pressure and fluid loading during head-down tilt bedrest p 162 A93-28682

Cardiopulmonary function during 10 days of head-down p 162 A93-28683 tilt bedrest

Effect of head-down tilt bedrest (10 days) on lymphocyte p 163 A93-28684 Effects of head-down tilt and saline loading on body

weight, fluid, and electrolyte homeostasis in man p 163 A93-28685

The effects of a 10-day period of head-down tilt on the cardiovascular responses to intravenous saline loading p 163 A93-28686

Effect of head-down bedrest on blood/plasma density p 163 A93-28687 after intravenous fluid load

Diuresis and natriuresis following isotonic saline infusion in healthy young volunteers before, during, and after HDT p 163 A93-28688

Head-down tilt bedrest: HDT'88 - An international collaborative effort in integrated systems physiology

p 164 A93-28689 Cardiovascular stress test with non-invasive

p 221 N93-24399 techniques

BAKER-FULCO, CAROL J.

Field trial of caffeine on physical performance at altitude An attempt to overcome the challenge [AD-A264260] p 337 N93-30894

BAKER, A.

Respiratory changes and structure of sleep in young high-altitude dwellers in the Andes of Peru p 383 A93-49569

BAKER, DANIEL R.

Sudden loading and fatigue effects on the human spine

[PB93-167526] p 286 N93-29199 BAKLAVADZHIAN, O. G.

The response of medullar respiratory neurons to the stimulation of the amygdaloid nuclei under hypoxia p 2 A93-12860 BALAKLEEVSKIJ, A. I.

The role of serotonin and histamine in increasing the resistance of the organism to certain extreme conditions p 324 A93-43034

BALARAM. J.

Remote surface inspection system

p 410 A93-55469

BALDWIN, KENNETH M.

Activity-induced regulation of myosin isoform distribution Comparison of two contractile activity programs

p 326 A93-44183

Interaction of various mechanical activity models in regulation of myosin heavy chain isoform expression p 327 A93-44184

BALDWIN, LAWRENCE C.

Evaluation and estimation of handling qualities via statistical modeling of pilot response data p 69 N93-14548 I AD-A255324 I

BALKIN, THOMAS

Effects of simulated high altitude exposure on long-tatency event-related brain potentials and performance p 117 A93-24042 BALLARD, R. E.

Intramuscular pressure and electromyography as indexes of force during isokinetic exercise

p 380 A93-49291

BALLAS, JAMES A.

Direct manipulation and intermittent automation in advanced cockpits [AD-A2538141 n 32 N93-11784

BALLIN, MARK G.

Consumables and wastes estimations for the First Lunar

Outnost

ISAE PAPER 9212871 p 302 A93-41453

BALON, THOMAS W.

Effects of insulin and exercise on rat hindlimb muscles p 78 A93-20036 after simulated microgravity

BALSER, BURKHARD User areas in aircraft cockpit, using methods of rapid

prototype development IMBB-FE-315-S-PUB-04931 p 196 N93-22389

BAMBACH, GREGORY A.

Heart and lung alterations in neonatal rats exposed to p 77 A93-20027 CO or high altitude

BANFRJEE, AMIT Electrically modifiable nonvolatile SONOS synapses for

electronic neural networks LAD-A2583181 p 122 N93-18252

RANKMAN ISAAC N.

Automated system for analyzing the activity of individual p 173 N93-22163 Automated system for early breast cancer detection in p 253 N93-25568 mammograms

BANKS MARTIN S.

The perception of heading during eye movements p 99 A93-20692

BANKS, ROBERT D.

The Canadian forces airsickness rehabilitation program 1981-1991 p 89 A93-18042

BANTA, GUY R.

Heat strain during at-sea helicopter operations and the effect of passive microclimate cooling p 7 A93-10330 BAPU. P. T.

Quick-disconnect harness system for helmet-mounted p 228 A93-30065 displays

BARBARINO, MANFRED

Stress resistance as a diagnostic category in air traffic ontroller selection

p 219 N93-24092 IDIR-FB-92-131 The position test: A computer generated process for acquisition of inductive logic thinking

p 343 N93-31232

BARBER, ELLEN T.

The effects of iconic presentation on individuals IAD-A2587851 p 133 N93-18949 BARBER, JUDY

Acceleration-induced effects on baboon blood p 376 A93-49224 chemistry BARBER, JUDY A.

Acquisition of physiological data during G-induced Loss of Consciousness (G-LOC)

p 335 N93-30400 IAD-A2644921

BARBIER, B.

Multimodal dialog system for future cockpits p 146 N93-19773

BARER, A. S.

Problems of medical support during extravehicular p 90 A93-18411 activity during flights to Mars BARFIELD, WOODROW

The effect of geometric field of view and tunnel design for perspective flight-path displays p 291 A93-41319 ISAE PAPER 9211311

BARIN, MARCO

Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture

ISAE PAPER 9211931 p 295 A93-41371

BARKER, ROBERT S.

Dew point analysis for Space Station Freedom p 296 A93-41401

|SAE PAPER 921227| p 296 A93-41401 Comparative test data assessment and simplified math modelling for Sabatier CO2 reduction subsystem |SAE PAPER 921228| p 296 A93-41402

BARKLEY, ROBERT

Contaminant distribution and accumulation in water recycle systems ISAE PAPER 9213601 p 307 A93-41519 Generation of iodine disinfection by-products (IDP's) in

water recycle system n 307 A93-41521

ISAE PAPER 9213621

BARLOW, LINDA S.

Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406

BARNABA, JAMES M.

KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation

p 30 N93-10713 LAD-A2539311 BARNES, K. W.

Microwave digestion preparation and ICP determination

p 377 A93-49570 of boron in human plasma

Chronobiology in a moon-based chemical analysis and n 48 A93-17439 physiologic monitoring laboratory

Development and implementation of the MotoMir experiment on the Mir Space Station

n 220 N93-24363

BAROSS, JOHN A. Deep-sea smokers - Windows to a subsurface p 397 A93-53284

BAROUDL DJEBAR

Correlation of results of radiant heat test and convective heat test for three layered protective clothing

p 194 N93-21161 BARRAUD, P. A.

Effects of sleep deprivation on the cognitive capacities

of visuo-spatial representation and orientation p 129 A93-21870

BARREAU, J. M. Design and preliminary testing of a membrane based water recycling system for European manned space

missions |SAE PAPER 921396| p 309 A93-41553

BARRETT, EDWARD G

Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125

BARRON, CARLOS Preliminary design of a radiator shading device for a

lunar outpost INASA-CR-1920161 p 139 N93-18019

BARROWS, LINDA H. Physiological responses to wearing the space shuttle launch and entry suit and the prototype advanced crew

escape suit compared to the unsuited condition INASA-TP-32971 NASA-TP-3297 p 149 N93-20319 Comparison of total body water estimates from O-18

and bioelectrical response prediction equations p 218 N93-23734 INASA-TP-32991 BARRY, MATTHEW

A decision-theoretic approach to the display of information for time-critical decisions: The Vista project p 367 N93-32152

BARTA, DANIEL J.
Regenerative Life Support Systems Test Bed erformance - Lettuce crop characterization

p 309 A93-41549 SAE PAPER 921391 BARTEL, DAVID P. Isolation of new ribozymes from a large pool of random

seauences BARTHELEMY, KRISTEN K.

Target designation in a perspective view, 3-D map using a joystick, hand tracker, or voice p 186 A93-27145 BARTHELEMY, P.

p 400 A93-56548

p 382 A93-49565

T wave changes in humans and dogs during experimental dives p 92 A93-20026 p 92 A93-20026 BARTON, R. S.

Design of a reading test for low vision image warping p 400 A93-53025

BARTOSH, T. P.

Regulation of the carbohydrate metabolism in humans esiding in the North p 384 A93-51117 BARTSCH. P. Does drinking protect against mountain sickness?

BASHINSKI, HOWARD S. Air Traffic Control facility lighting p 188 A93-27167

B-4

PERSONAL AUTHOR INDEX

BERNAUER, EDMUND

BASSINGER, VIRGINIA J. BEGIN, M. BENSAID, AMINE M. Effects of refrigerating preinoculated Vitek cards on Identification of a critical period for motor development A comparison of neural network and fuzzy clustering microbial physiology and antibiotic susceptibility ISAE PAPER 921214| p 273 A techniques in segmenting magnetic resonance images of p 273 A93-41390 p 214 A93-31267 BEHAR, ISAAC the brain BASTIN, PAUL The effects of pyridostigmine bromide on visual BENSEL, CAROLYN K. p 87 A93-18034 Anthropometry of the foot and lower leg of U.S. Army Rotational speed control p 365 N93-31457 p 365 N93-31458 BEHREND, A. F. soldiers: Fort Jackson, SC Vibration isolation JSC ECLSS R/T program overview [AD-A261405] p 268 N93-26404 BASU. R. p 312 N93-27725 Biological conversion of synthesis gas culture BENSON, A. J. BEISVAAG, T. Perceptual scaling of whole-body low frequency linear development The USO-concept applied to a biological model experiment p 210 N93-24379 oscillatory motion IDE92-0012791 p 6 N93-12482 p 379 A93-49225 BATE, IAIN J. BENSON, BRIAN L. BEJCZY, A. K. Helmet slippage during visual tracking - The effect of Methods development for total organic carbon Operator performance with alternative manual control accountability voluntary head movements p 389 A93-49223 modes in teleoperation p 40 N93-12949 INASA-CR-1844381 BATENCHUK-TUSKO, T. V. BEJCZY, ANTAL K. The ECLSS advanced automation project evolution and The Inkubator-2 complex for studying the embryonic and Fusing human and machine skills for remote robotic p 312 N93-27723 postembryonic development of birds in conditions of technology assessment p 137 A93-24994 perations p 241 A93-35242 weightlessness **BENTZ, JERRY** BEL'CHENKO, D. I. Large-screen-projection, avionic, and helmet-mounted BATTLE, D. S. Autorosette formation in the peripheral blood of people displays; Proceedings of the Meeting, San Jose, CA, Feb. glare from high-intensity discharge Discomfort with lengthy limitations of motor activity headlamps: Effects of context and experience 26-28, 1991 p 250 A93-35245 p 336 N93-30659 ISPIE-14561 p 181 A93-26881 [PB93-174720] BELAKOVSKII, M. S. BAUGHMAN, WAYNE A. BERARDO, PETER A. The role of ultraviolet radiation and vitamin-D metabolism Emergence of telerobotic control enhancement from Behavioral validation of a hazardous thought pattern in medical care during space flights p 247 A93-35216 p 176 A93-27142 research in machine autonomy p 183 A93-27028 BELCHER, JEWELL G. BAUMEISTER, WOLFGANG Bar-holding prosthetic limb [NASA-CASE-MFS-28481-1] BERBAUM, KEVIN S. Profile analysis of simulator sickness symptoms p 70 N93-14870 Structure of a molecular chaperone from a thermophilic **BELENKY, GREGORY** Application to virtual environment systems archaebacterium p 151 A93-25821 Effects of simulated high altitude exposure on long-latency event-related brain potentials and performance p 117 A93-24042 p 381 A93-49399 BAYEVSKIJ, R. Monitoring of cardiovascular parameters during the BERG. B. W. AustroMir space flight Hemodynamic effects of altitude exposure and oxygen p 220 N93-24367 BAZYLINSKI, DENNIS A. BELINSKII. A. V. administration in chronic obstructive pulmonary disea Diagnostics and prophylaxis of adverse psychological p 383 A93-49571 Multiple evolutionary origins of magnetotaxis in bacteria states in marine aviation flight personnel p 153 A93-27799 BERG, BRUCE G. BEAR, MARK F. p 257 A93-36744 Classification of complex sounds Theory of synaptic plasticity in visual cortex p 122 N93-18223 [AD-A258405] Overconfidence, preview, and probability in strategic [AD-A2600521 p 224 N93-23960 BERGAN, TONE planning p 179 A93-27195 Theory of synaptic plasticity in visual cortex The psychological effects of isolation on a space station A simulation study [AD-A260322] p 219 N93-24238 Studies of safety, infectivity, and immunogenicity of a new Temperature Sensitive (TS) 51-1 strain of S. typhi BÈARD, K. C. . p 287 A93-41369 (SAE PAPER 921191) The earliest fossil evidence for sexual dimorphism in BERGEN, JAMES as a new live oral typhoid fever vaccine candidate p 152 A93-27775 primates Human visual performance model for crewstation First skulls of the early Eocene primate Shoshonius p 19 N93-11306 p 182 A93-26887 design Epidemiologic view of allergic diseases in North America: cooperi and the anthropoid-tarsier dichotomy Visualization and modeling of factors influencing visibility Implications for aerospace medicine p 20 N93-11311 p 202 A93-32670 in computer-aided crewstation design [SAE PAPER 921135] BEBINOV, E. M. BELLIVEAU, J. W. p 292 A93-41323 Functional MRI studies of human vision on a clinical Functional state of the vegetative nervous system in women undergoing high-altitude adaptation and BERGER, M. [DE92-017448] AUDIMIR - Directional hearing at microgravity readaptation to 760 m above sea level p 49 N93-12566 p 159 A93-26570 BELOUSOV, A. V. p 44 A93-15165 Role of the central nervous system in the control of Eye-head-arm coordination and spinal reflexes in p 236 N93-24362 Effect of head-down tilt bedrest (10 days) on lymphocyte hybernation p 378 A93-51025 weightlessness BENAOUDIA, M. BERGH, KARE reactivity p 163 A93-28684 Study of the spectrum of power of cardiac rhythm during Variability over time of complement activation induced tasks relating to the safety of the control of an Comparison of treatment strategies for space motion by air bubbles in human and rabbit sera p 127 N93-19707 p 323 A93-42190 p 386 A93-52402 BENEDICT, CHRISTIAN P. BERGMAN, T. BECK, BRADLEY G. Treatment efficacy of intramuscular promethazine for Helmet-mounted systems test and evaluation process Plasmid encoded virulence of Yersinia p 227 A93-30053 p 275 N93-28199 Space Motion Sickness p 212 A93-30283 BENHALLA, A. BERINGER, DENNIS B. Study of the spectrum of power of cardiac rhythm during Influence of posture and prolonged head-down tilt on Effects of error-proofing and chemical/biological/radiation protective glove use on touch panel operation p 186 A93-27152 cardiovascular reflexes p 161 A93-28677 tasks relating to the safety of the control of an Cardiovascular response to lower body negative p 127 N93-19707 apparatus touch panel operation BERKA, REGINALD B. pressure before, during, and after ten days head-down BENKE, TH. Development of a large space robot - A multi-segment p 162 A93-28681 COGIMIR - A study of cognitive functions in Pulmonary responses to lower body negative pressure and fluid loading during head-down tilt bedrest microgravity p 174 A93-26569 approach, 1 [AIAA PAPER 93-1463] BENKE, THOMAS p 261 A93-34012 p 162 A93-28682 Space and cognition - The measurement of behavioral Development of a large space robot - A multi-segment Cardiopulmonary function during 10 days of head-down functions during a 6-day space mission approach, II AIAA PAPER 93-1464 p 162 A93-28683 p 405 A93-55164 p 262 A93-34013 The effects of a 10-day period of head-down tilt on the BENNETT, BARBARA S. BERKE, LESLIE cardiovascular responses to intravenous saline loading Behavioral asymmetries of psychomotor performance Cerebral blood flow velocities by transcranial Doppler during parabolic flight p 84 A93-17533 in rhesus monkeys (Macaca mulatta) - A dissociation p 163 A93-28686 between hand preference and skill p 339 A93-44923 Cardiovascular stress test with non-invasive Acute hemodynamic response to weightlessness during p 221 N93-24399 BERKHOUT, JAN techniques parabolic flight p 86 A93-17547 BECKER, CHRISTOPHER H. Gloved operator performance study BENNETT, KEVIN B. The fate or organic matter during planetary accretion -Preliminary studies of the organic chemistry of p 104 N93-16048 LAD-A2568941 Graphical displays - Implications for divided attention, BERKOVICH, YU. A. focused attention, and problem solving experimentally shocked Murchison meteorite The first 'space' vegetables have been grown in the p 102 A93-19984 p 110 A93-17984 'SVET' greenhouse using controlled environmental BENNETT, W. S., II conditions p 394 A93-52410 **BECKER, LEWIS** System automation and pilot-vehicle-interface for Cardiovascular responses to lower body negative BERKOWITZ, JACK P. unconstrained low-altitude night attack pressure in trained and untrained older men Movement tracking performance as a function of p 320 N93-28867 p 177 A93-27171 p 115 A93-21686 required force level BENNETT, WINSTON R. BEDNENKO, VIKTOR S. BERMAN, J. D. Introduction to training decisions modeling technologies: Walter Reed Army Institute of Research biannual Hypokinesia and weightlessness: Clinical and The training decisions system physiologic aspects p 27 N93-12252 AD-A2498621 LISBN 0-8236-2415-31 LAD-A2556301 p 87 A93-17897 p 52 N93-14162 BEGAULT, DURAND R. BENOIT, SANDRA L. BERNAUER, E. M. Conspicuity of aids to navigation. Part 1: Temporal patterns for flashing lights Headphone localization of speech stimuli Effect of hemorrhage on cardiac output, vasopressin, p 176 A93-27143 aldosterone, and diuresis during immersion in men

AD-A2646261

BENOLKEN, MARTHA S.

vestibulo-ocular reflex symmetry

Relation between perception of vertical axis rotation and

Perceptual effects of synthetic reverberation on

p 257 A93-36583

p 394 A93-52507

three-dimensional audio systems

Headphone localization of speech

p 341 N93-30426

p 214 A93-32176

[NASA-TM-103949]

BERNAUER, EDMUND

p 6 N93-12014

p 118 A93-25206

Blood volume reduction counteracts fluid shifts in water

BERRY, E. M. PERSONAL AUTHOR INDEX

BERRY, E. M.

A balanced carbohydrate:protein diet in the management of Parkinson's disease p 153 A93-27918 BERRY, I.

Magnetic Resonance Imaging evaluation of lower limb muscles during bed rest - A microgravity simulation p 212 A93-30280

BERRY, P.

Magnetic Resonance Imaging evaluation of lower limb muscles during bed rest - A microgravity simulation model p 212 A93-30280

BERRY, WILLIAM F.

Human support for Mars exploration - Issues and approaches p 27 A93-12077

BERTHON-JONES, MICHAEL

Increased normoxic ventilation induced by repetitive hypoxia in conscious dogs p 79 A93-20037 BESICH, W.

The influence of dietary counseling and cardiac catheterization on lipid profiles in American military p 369 N93-32259 aviators

BESKROVNII O M

The state of the endocrine system of rats of different age under conditions of immobilization stress and biomos p 242 A93-35671 administration

BESSER, W. S.

Cases from the aerospace medicine resident's teaching file: Case No.51 - Hypercholesterolemia and heme positive stools in a 69-year-old aviator (clinical conference)

p 165 A93-28702

Effects of unilateral selective hypergravity stimulation p 386 A93-52407 on gait

BEST, LEONARD G.

Low-cost monochrome CRT helmet display p 228 A93-30061

Low-cost color LCD helmet display

p 228 A93-30062

Low-cost helmet-mounted displays IAD-A2626161 p 317 N93-28479

BETLACH, MICHAEL

Myosin heavy chain composition in the rat diaphragm p 37 A93-14970 Effect of age and exercise training BEYER, J.

Relationship between pituitary ACTH content and hypothalamic catecholamines in the rat

p 203 A93-33028

BEZBOGOV, A. A.

A procedure for estimating the variables of the working-condition space of a man-machine system for the control of a moving object p 364 A93-45685

BEZDEK, JAMES C.

A comparison of neural network and fuzzy clustering techniques in segmenting magnetic resonance images of p 214 A93-31267 the brain

BICE, DAVID E.

Beryllium toxicity - An update p 104 A93-20779 BIE, PETER

Volume-homeostatic mechanisms in humans during a 12-h posture change p 387 A93-52620 BIEDERMAN, IRVING

Psychophysical analyses of perceptual representations [AD-A255432] p 58 N93-14510

BIERBAUM, CARL R.

Operator workload predictions for the revised AH-64A

workload prediction model, volume 1 1AD-A2541981

p 30 N93-10261 Operator workload predictions for the revised AH-64A workload prediction model. Volume 2: Appendixes A through H

[AD-A254939] p 63 N93-12545

BIERLING, L.

Manned Space-Laboratories Control Centre (MSCC) training p 339 A93-43330

BIERMANN, PAUL J.

The design of mechanically compatible fasteners for human mandible reconstruction p 253 N93-25569 BIERS, DAVID W.

A comparison of two scoring procedures with the NASA

task load index in a simulated flight task p 349 A93-42849

BIERSCHWALE, JOHN M.

Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155

BIEZANOWSKA-TUSIEWICZ, EWA

Methodology for ergonomic tests of the information p 101 A93-18530 display on monitor indicators Ergonomic aspects of presentation piloting-navigation information p 101 A93-18531 BIGARD, A. X.

Protein requirements in hypoxia or hypokinesia

p 368 N93-32244

BIGBEE, LARRY R.

Estimates of Human Immunodeficiency Virus (HIV) incidence and trends in the US Air Force

p 16 N93-11292

p 9 A93-11675

BIGGERS, W. P. Electronystagmography and audio potentials in space

BILARDO, VINCENT

flight

Overview of NASA's 1991 Life Support Systems Analysis

[SAE PAPER 921118] p 290 A93-41310

BILARDO, VINCENT J., JR.

Regenerative life support technology challenges for the p 346 A93-42128 Space Exploration Initiative BILLICA, ROGER D.

Animal surgery in microgravity p 112 A93-24047 Crew health p 217 N93-22630

BILODEAU, JAMES W.

Space biology initiative program definition review. Trade study 5: Modification of existing hardware (COTS) versus p 207 N93-23069 new hardware build cost analysis Space biology initiative program definition review. Trade study 4: Design modularity and commonality

p 208 N93-23071

p 209 N93-23081

Space biology initiative program definition review. Trade study 3: Hardware miniaturization versus cost

p 208 N93-23080 Space biology initiative program definition review. Trade study 6: Space Station Freedom/spacelab modules compatibility

1EEI-89-2361

BINGHAM, C. Chronobiology in a moon-based chemical analysis and physiologic monitoring laboratory p 48 A93-17439

Design and preliminary testing of a membrane based water recycling system for European manned space

|SAE PAPER 921396| p 309 A93-41553

BIOCCA, FRANK

Will simulation sickness slow down the diffusion of virtual p 391 A93-49405 environment technology?

Recovering potable water from wastewater in space

platforms by lyophilization p 304 A93-41485 SAE PAPER 921323 | Extraction of potable water from urine for space p 345 A93-42121 applications

BIRNBACH, RICHARD A.

Helicopter simulation: An aircrew training qualification perspective p 342 N93-30676 BISELLI, R.

Dramatic reduction of meningococcal meningitis among military recruits in Italy after introduction of specific p 18 N93-11303 vaccination The screening of inhalant allergic diseases in the

selection of candidates for aircraft piloting n 21 N93-11312

BISELLI, ROBERTO

Influence of stress on lymphocyte subset distribution -A flow cytometric study in young student pilots

p 118 A93-25203 Clinical and immunological response to vaccination with parenteral or oral vaccines in two groups of 30 recruits p 19 N93-11305

BISHOP, PHILLIP A.

Effects of fatigue and heat stress on vigilance of workers in protective clothing p 177 A93-27173 Limitations to the study of man in space in the U.S. p 213 A93-30285 RISHU RAM R

Investigation of the effects of Extra Vehicular Activity (EVA) and Launch and Entry (LES) gloves on performance p 266 N93-26061

BISSON, ROGER U.

Prediction of maximal oxygen uptake from submaximal exercise testing in aerobically fit and nonfit men p 385 A93-52304

Subjective mood and fatigue of C-141 crew during Desert Storm p 370 N93-32264 C-141 aircrew sleep and fatigue during the Persian Gulf p 371 N93-32265 conflict

Digital flight data as a measure of pilot performance associated with fatigue from continuous operations during p 371 N93-32268 the Persian Gulf conflict

Correlation of serum alpha sub 1 antitrypsin with cigarette smoking and pulmonary function status in Greek p 22 N93-11318 pilots, for a ten year period

BITTEN, ROBERT E.

Requirements for pilot assistance in a thrust-vectoring p 320 N93-28870 combat aircraft BITTLE, POLLY A. Effects of hypoxemia at sea level and high altitude on

sodium excretion and hormonal levels p 8 A93-10332

BITTON, D. F.

Head-up display standardization and the utility of analog vertical velocity information during instrument flight p 189 A93-27451

BLABER, A. Respiratory response to varying degrees of tilt and lower body negative pressure p 173 N93-21114

BLACHE, DENIS Free radical attack - Biological test for human resistance p 39 A93-17434 capability

BLACK, F. O.

Vestibular ataxia following shuttle flights - Effects of microgravity on otolith-mediated sensorimotor control of p 169 A93-28750

BLACK, F. OWEN

Role of orientation reference selection in motion sickness

p 124 N93-18596 [NASA-CR-191912] BLACKBURN, M. R.

A simple computational model of center-surround receptive fields in the retina

IAD-A2647231 p 336 N93-30515 An algorithm for simple and complex feature detection: From retina to primary visual cortex

p 337 N93-30897 IAD-A2643061

BLACKMAN, HAROLD S.

Insights into pilot situation awareness using verbal p 175 A93-27138 protocol analysis

BLACKNALL, CAROLYN

Space biology initiative program definition review. Trade study 5: Modification of existing hardware (COTS) versus p 207 N93-23069 new hardware build cost analysis Space biology initiative program definition review. Trade study 6: Space Station Freedom/spacelab modules compatibility

JEEI-89-2361 p 209 N93-23081

BLAGININ, A. A.

cardiovascular and Preclinical neurological occupation-related pathological symptoms in helicopter p 91 A93-18416

BLAINE, G. JAMES

Digital mammography, cancer screening: Factors p 221 N93-24551 important for image compression BLAKE, T. A.

Optimal design of composite hip implants using NASA p 174 N93-22188 technology

BLANCHARD, L. A.

Biophysical model for handwear insulation testing p 320 N93-28884 IAD-A2629261

BLANCHARD, LAURIE A.

Validation of two temperature pill telemetry systems in humans during moderate and strenuous exercis p 124 N93-19072 IAD-A2590681

BLANCHARD, ROBERT E.

Accident proneness: A research review [DOT/FAA/AM-93/9] p 288 N93-28622 **BLANCO, JOSE**

Psychiatric diagnoses aboard an aircraft carrier

p 57 A93-16162 BLATT, S. P. Coccidioidomycosis - A persistent threat to deploye

populations **BLEWETT, CAMERON**

p 380 A93-49228 Quantitative EMG analysis in soleus and plantaris during hindlimb suspension and recovery p 326 A93-44176

BLOIGU RISTO Determinants of + Gz-related neck pain - A preliminary p 380 A93-49227

BLOMQVIST, C. G.

Role of atrial natriuretic peptide in systemic responses to acute isotonic volume expansion p 44 A93-14968 Effects of head-down tilt for 10 days on the compliance p 162 A93-28680

Pulmonary responses to lower body negative pressure and fluid loading during head-down tilt bedrest

p 162 A93-28682 Effects of head-down tilt and saline loading on body

weight, fluid, and electrolyte homeostasis in man p 163 A93-28685

Effect of head-down bedrest on blood/plasma density after intravenous fluid load p 163 A93-28687 Diuresis and natriuresis following isotonic saline infusion in healthy young volunteers before, during, and after

HDT p 163 A93-28688 Head-down tilt bedrest: HDT'88 - An international

collaborative effort in integrated systems physiology p 164 A93-28689

BLOOM, T. F.

Fluorocarbon 113 exposure and cardiac dysrhythmias among aerospace workers p 168 A93-28739

BLOSWICK, DONALD S.

Sudden loading and fatigue effects on the human p 286 N93-29199 IPB93-1675261

B-6

BLOWER, D. J.

Performance differences in psychomotor and dichotic listening tests among landing craft air cushion vehicle operator trainees p 177 A93-27174

BLOWER, DAVID J.

Using constraint satisfaction networks to study aircrew selection for advanced cockpits

IAD-A2581511 p 140 N93-18293

BLUEM, V.

CEBAS-Aquarack: An artificial aquatic animal plant ecosystem as a tool for basic research in the Columbus p 210 N93-24401 Space Station

Ecosystems on Earth and in space (the possible utilization of artificial ecosystems for space life support systems) p 236 N93-24406

BLUME, H. T.

The USO-concept applied to a biological model experiment p 210 N93-24379

Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme p 226 N93-24382

BLUMEN. I. J.

Flight physiology - Clinical considerations

p 164 A93-28690

BLUSZTAJN. J. K.

Effects of running the Bostom Marathon on plasma concentrations of large neutral amino acids

p 160 A93-27048

BOBBA, FABIANA

Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture

|SAE PAPER 921193| p 295 A93-41371

воск, о.

Aimed arm movements under changed gravity

p 193 N93-21113

BOCK OTMAR

Accuracy of aimed arm movements in changed gravity p 56 A93-16159

BODE, ARTHUR P.

Evaluation of dried storage of platelets for transfusion: Physiologic integrity and hemostatic functionality

p 334 N93-29620 LAD-A2632401

BODEK, ITAMAR

The development and testing of a volatile organics concentrator for use in monitoring Space Station water

quality ISAE PAPER 9212661 n 300 A93-41436

BODLAFNDER HANS L

Two strikes against perfect phylogeny [RUU-CS-92-08]

p 157 N93-20848

BOEHM-DAVIS, DEBORAH A.

Behavioral validation of a hazardous thought pattern instrument p 176 A93-27142

BOEHM, ALBERT M.

Space Station Water Processor - Current flight design |SAE PAPER 921112| p 289 A93-41306 BOEHM, H.-D. V.

Equipment, more or less ready to be used in p 148 N93-19785 helicopters

Plasmid encoded virulence of Yersinia

IFOA-B-40419-4.4| p 275 N93-28199

BOGART, EDWARD H.

Identification of hazardous awareness states in monitoring environments

[SAE PAPER 921136] Method of encouraging attention by correlating video game difficulty with attention level NASA-CASE-LAR-15022-1 p 288 N93-28128

BOGOMOLOV, V. V.

Main medical results of extended flights on Space Station Mir in 1986-1990 p 386 A93-52401

BOHNKER, BRUCE

Psychiatric diagnoses aboard an aircraft carrier

p 57 A93-16162

BOIARINOVA, M. V.

Engineering and technical support of experiments on oard the Cosmos-2044 biosatellite p 77 A93-18419 BOICE, D. C.

Comets as a possible source of prebiotic molecules p 109 A93-17979

BOLENDER

Mir 1992 operations and crew training

p 226 N93-24352

BOLL, PATRICIA A

C-141 aircrew sleep and fatigue during the Persian Gulf p 371 N93-32265

BOLL, PATRICIA A.

Subjective mood and fatigue of C-141 crew during Desert p 370 N93-32264 Digital flight data as a measure of pilot performance associated with fatigue from continuous operations during the Persian Gulf conflict p 371 N93-32268

BOLLINGER, LANCE

Potential health risks from postulated accidents involving the Pu-238 RTG on the Ulysses solar exploration p 43 A93-13774

BOLSTAD CHERYL A.

Individual pilot differences related to situation p 175 A93-27137 awareness Human capabilities and limitations in situation p 319 N93-28863 awareness

BOMALASKI, S. H.

Thermal convergence fails to predict heat tolerance limits p 8 A93-10331

BOMAN, DUANE

Studies of the field-of-view resolution tradeoff in virtual-reality systems p 232 A93-33443 BONDAR, R. L.

Cerebral autoregulation in microgravity

p 173 N93-21112 BONDAR, ROBERTA L.

Cerebral blood flow velocities by transcranial Dopple during parabolic flight n 84 A93-17533

Adaptation of young pilots to new conditions of their work (Social-psychological aspects) p 256 A93-35220

The effect of the activation of the sympatho-adrenal system on catecholamine inactivation in rat lungs

p 2 A93-12864

BONETTI, DENA M.

The effect of variable seat back angles on human response to +Gz impact accelerations

p 31 N93-11559 LAD-A2506731

BONNER, WILLIAM A.

Terrestrial and extraterrestrial sources of molecular p 110 A93-17986 homochirality

BONTING, SJOERD L.

Space biology research development p 244 N93-25242

INASA-CR-1928301 BOONSTRA, J.

Inhibition of EGF-induced signal transduction by microgravity is independent of EGF receptor redistribution

in the plasma membrane of human A431 cells p 272 A93-39715

BOONSTRA, JOHANNES

Altered gravity conditions affect early EGF-induced signal transduction in human epidermal A431 cells p 376 A93-49214

New approaches to the measurement of chlorophyll, related pigments and productivity in the sea [NASA-CR-190879] p 42 p 42 N93-13612

BOOTH, FRANK W.

Eccentric exercise training as a countermeasure to non-weight-bearing soleus muscle atrophy p 78 A93-20033

BOPARAI, M. S.

Body fluid compartments, renal blood flow, and hormones at 6,000 m in normal subjects p 281 A93-41125

BORGHESE, JOSEPH B.

Portable life support system regenerative carbon dioxide and water vapor removal by metal oxide absorbents preprototype hardware development and testing [SAE PAPER 921299] p 303 AS p 303 A93-41464

BORISOV, M. Eye-head-arm coordination and spinal reflexes in p 236 N93-24362

weightlessness

BOROWSKA, ZOFIA Photo and thermal reactions of ferrous hydroxide p 269 A93-36561

BORRELY, S. I.

Utilization of high energy electron beam in the treatment of drinking and waste water

p 372 N93-32406

p 263 A93-35571

[DE92-642335] BORTHWICK, DAWN E.

Design of a reusable kinetic energy absorber for an astronaut safety tether to be used during extravehicular

activities on the Space Station [NASA-CR-192015] p 139 N93-17973

BORTNIKOVA, G. I.

Possible biological significance of the curvature of equipotential surfaces of gravity-force tidal variations p 324 A93-43025

BORTNOVSKII, V. N.
The state of cardiac activity control in humans during cyclic changes of barometric pressure in a hermetic chamber p 251 A93-35257

BOSMAN, D.

Engineering the visibility of small features on electronic flight displays p 144 N93-19758 BOSMAN, R. A.

HERA - A reliable and safe space robot

BOSWELL, R. N.

Early markers of HIV infection and subclinical disease p 17 N93-11296 BOUET, T.

Design and preliminary testing of a membrane based water recycling system for European manned space missions

|SAE PAPER 921396| p 309 A93-41553

BOUISSON, X.

Design and preliminary testing of a membrane based water recycling system for European manned space

ISAF PAPER 9213961 p 309 A93-41553

BOULAY, WILLIAM

Design/development of an enhanced biodynamic p 142 N93-19667 manikin

BOURLAND, CHARLES T.

Space Station Freedom food management

ISAE PAPER 9212481 p 298 A93-41419 ROUSSIE A

Lipodystrophies in the French military flight crew p 362 N93-32249

BOVENZI, JAMES J.

Networked simulation for team training of Space Station astronauts, ground controllers, and scientists - A training and development environment p 179 A93-27188

BOWEN, CHARLES D. Measures of user-system interface effectiveness: Assessment of structured judgment evaluation techniques for graphical, direct-manipulation style interfaces

AD-A254493 | p 63 N93-12576 Measures of user-system interface effectiveness: An LAD-A2544931 encoding scheme and indicators for assessing the usability of graphical, direct-manipulation style user interfaces [AD-A260606] p 265 N93-25840 p 265 N93-25840

BOWER, GORDON H.

Spontaneous discovery and use of categorical structure

p 260 N93-26364 I AD-A2616581 BOWERY, NORMAN G.

Autoradiographic distribution applied pharmacological characteristics of dextromethorphan and related antitissue/anticonvulsant drugs and novel

analogs [AD-A255607] p 54 N93-15009

BÒWSER, S. E.

Human perceptual deficits as factors in computer interface test and evaluation p 63 N93-12712

[DE92-019124] BÒYD, ROBERT

Human habitat design for the Space Exploration Initiative p 344 A93-41978

BOYDA, ROBERT B. Sabatier carbon dioxide reduction system for Space Station Freedom

ISAE PAPER 9211891

BÖZEMAN, RICHARD J., JR. Control system and method for prosthetic devices [NASA-CASE-MSC-21941-1] p 106 N93-1 p 106 N93-17087

BRAAK, LAURENT Biomedical engineering and space

p 103 A93-20015

p 294 A93-41368

BRACK, ANDRE Water in the solar system and its role in exobiology;

Proceedings of the European Geophysical Society General Assembly, 26th, Wiesbaden, Germany, Apr. 22-26, 1991 p 268 A93-36551 Liquid water and the origin of life p 268 A93-36552 Exobiology and terrestrial life p 237 N93-24405

BRADLEY, BARBARA L. The effects of cockpit heat on aviator sleep p 371 N93-32266

BRADLEY, R. The development of an automated cell culture system for use in space life science research

p 158 N93-21085

BRADWAY, LEON The US Navy Healthy Back Program: Effect on back knowledge among recruits

[AD-A258368] p 121 N93-18210

BRAEUCKER, RICHARD

Short-term microgravity to isolate graviperception in celts p 111 A93-21901 Graviperception in unicellular organisms - A comparative behavioural study under short-term microgravity

p 151 A93-26548

BRAGHIN, MASSIMO System integration and verification approach for the environmental control system of the Columbus Attached

Pressurised Module [SAE PAPER 921261] p 299 A93-41431

BRAIN, DAVID A.

A study of the effects of micro-gravity on seed p 40 N93-13167 germination

BRAINARD, GEORGE

Effects of early bright, late bright and dim illumination upon circadian neuroendocrine, electrophysiological and behavioral responses IAD-A2541291 p 13 N93-10661

BRANDENBERGER, G.

Nocturnal pituitary hormone and renin profiles during chronic heat exposure p 387 A93-52619

BRANTLEY, DOUGLAS K.

Fatal mishap report - First SPH-4B flight helmet recovered from a U.S. Army helicopter mishap

p 393 A93-52308

BRATUS', L. V.

Mechanisms of the antihypoxic effect of taurine p 325 A93-43073

BRAUN, DANIEL E.

Heat strain during at-sea helicopter operations and the effect of passive microclimate cooling p 7 A93-10330 BRAUNE, ROLF J.

Toward a flight deck automation philosophy for the Boeing High Speed Civil Transport [SAE PAPER 921133] n 291 A93-41321

BRAZHNIKOVA, V. N.

Functional state of the vegetative nervous system in women undergoing high-altitude adaptation and readaptation to 760 m above sea level

p 44 A93-15165 BRECHIGNAC, F.

A body mass measurement device based on the oscillation principle p 221 N93-24400 BREIT, G. A.

Cerebral blood flow velocity in humans exposed to 24 h of head-down tilt p 381 A93-49295 BRENNER, D. J.

Accelerated heavy particles and the lens. VIII Comparisons between the effects of acute low doses of iron ions (190 keV/microns) and argon ions (88 keV/microns) p 216 A93-32784

BRESNICK, TERRY A.

Real-time expert system interfaces, cognitive processes, and task performance - An empirical assessment

p 394 A93-52503

BRESSAN, RAYMOND A.

Biomass productivity and sustainability of a bioregenerative life-support system [SAE PAPER 921359] p 307 A93-41518

BRETOL REMUS

Manned systems technology discipline

p 314 N93-27860

BRIARTY, L. G.

Development of Arabidopsis thaliana grown under hicrogravity conditions p 211 N93-24404 microgravity conditions

BRIDGEMAN, BRUCE

Alternating prism exposure causes dual adaptation and generalization to a novel displacement p 388 A93-51959

BRIEGLEB, WOLFGANG

Some qualitative and quantitative aspects of the fast-rotating clinostat as a research tool p 375 A93-49209

BRIGGS, R.

Comet Halley as an aggregate of interstellar dust and further evidence for the photochemical formation of organics in the interstellar medium p 108 A93-17824

BRILL MICHAEL H. Human vision, visual processing, and digital display II; Proceedings of the Meeting, San Jose, CA, Feb. 27-Mar. 1. 1991

[SPIE-1453]

p 137 A93-25363

BRINKLEY, JAMES W.

The effect of variable seat back angles on human response to +Gz impact accelerations p 31 N93-11559 [AD-A250673]

BRINKLEY, WILLIAM D.

Systemic and pulmonary hypertension after resuscitation with cell-free hemoglobin

[AD-A258185]

BRION, GAIL M.

p 120 N93-17900 Contaminant distribution and accumulation in water

recycle systems ISAE PAPER 9213601 p 307 A93-41519 Inactivation of a model coliphage virus in water by

iodine [SAE PAPER 921361] p 274 A93-41520 Generation of iodine disinfection by-products (IDP's) in

a water recycle system **ISAE PAPER 9213621** p 307 A93-41521

BRISTOW, G. K.

Decrement in manual arm performance during whole

p 88 A93-18038 Effect of task complexity on mental performance during p 211 A93-30279 immersion hypothermia

BRISTOW, GERALD K.

A second postcooling afterdrop - More evidence for a convective mechanism p 44 A93-14969

BRITTON, BRUCE K.

Expertise, text conerence, and constraint satisfaction: Effects on harmony and settling rate p 288 N93-28901 AD-A262703 |

BRIZZEE, KENNETH R.

The central nervous connections involved in motion induced emesis p 399 A93-55931

BROACH, DANA

Contribution of personality to the prediction of success in initial air traffic control specialist training p 259 N93-26138 [DOT/FAA/AM-93/4]

BROADHURST, RICHARD S.

Retroperitoneal fibrosis as a cause of hypertension in p 212 A93-30284 an aviator - A case report

BROCK, THOMAS C.

Dynamics of auxin movement in the gravistimulated leaf-sheath pulvinus of oat (Avena sativa) p 358 A93-46472

BROCK, THOMAS G.

Cell wall and enzyme changes during the graviresponse of the leaf-sheath pulvinus of oat (Avena sativa)

p 329 A93-44941

BRODY, WILLIAM R.

Automated system for early breast cancer detection in p 253 N93-25568 mammograms

BROEKMANS, D. M. A.

A new concept for helmet mounted vision p 145 N93-19767

BROOKS, ANTONE L.
Beryllium toxicity - An update p 104 A93-20779

BROOKS, CAROLYN A.

A proposal to demonstrate production of salad crops in the Space Station Mockup Facility with particular attention to space, energy, and labor constraints [NASA-CR-192815] p 209 N93-23169

BROOKS, FREDERICK P., JR.

Advanced technology for portable personal visualization | AD-A253808 | p 32 N93-11783

BROOKS, REBECCA B.

Flight director information and pilot performance in instrument approaches

[AD-A258186] p 131 N93-17857

BROOKS, THURSTON L.

Operator vision aids for telerobotic assembly and servicing in space p 262 A93-35530 Operator vision aids for space teleoperation assembly p 33 N93-11981

BROUNS, FRED

Energy expenditure climbing Mt. Everest p 92 A93-20031

BROUWER, M. P. A. M.

The USO-concept applied to a biological model p 210 N93-24379 experiment Training concept for crew, end user, and ground centre

personnel in the Columbus utilisation programme p 226 N93-24382

BROWMAN, KAITLIN E.

Alternating prism exposure causes dual adaptation and generalization to a novel displacement p 388 A93-51959

BROWN, ALLAN H.

Centrifuges - Evolution of their uses in plant gravitational biology and new directions for research on the ground p 376 A93-49211 and in spaceflight

A proposal to determine properties of the gravitropic response of plants in the absence of a complicating g-force (GTHRES) p 114 N93-19377

[NASA-CR-192219]

BROWN, ALLEN H.

Investigation of wheat coleoptile response to phototropic stimulations p 114 N93-18608 INASA-CR-1921571

BROWN, CLIFFORD E.

Human performance data visualization for system desig p 348 A93-42840 teams Computer-supported collaborative work - A new agenda p 348 A93-42841 for human factors engineering BROWN D

The development of an automated cell culture system tor use in space life science research

BROWN, G. M.

Development of resonance ionization spectroscopy for genome mapping and DNA sequencing using stable isotopes as DNA labels p 246 N93-26587 IDE93-0078151

BROWN, G. STEPHEN

Digital mammography, cancer screening: Factors important for image compression p 221 N93-24551 BROWN, GEORGE R.

Neuropsychiatric morbidity in early HIV disease: Implications for military occupational function p 18 N93-11299

BROWNSON, P.

Is axial loading a primary mechanism of injury to the lower limb in an impact aircraft accident?

p 125 N93-19664

p 158 N93-21085

BROWSE, ROGER A.

Using tactile information in telerobotics

p 138 A93-25482

BRUBAKK, ALF O.

Variability over time of complement activation induced by air bubbles in human and rabbit sera

p 323 A93-42190

BRUCE, REBEKAH J.

Biofilm formation and control in a simulated spacecraft water system - Three year results ISAE PAPER 9213101 p 303 A93-41472

BRUCE, ROBERT C.

X Ray System, Lightweight Medical (XRSLM) p 123 N93-18295 IAD-A2581591

BRUCKART, JAMES E.

Fatal mishap report - First SPH-4B flight helmet

recovered from a U.S. Army helicopter mishap p 393 A93-52308 Test and evaluation report of the Physio Control

Defibrillator/Monitor, Model LifePak(tm) 6s [AD-A255691] p 52 N93-14103

Real time proximity cues for teleoperation using model p 184 A93-27033 based force reflection Intelligent robotics capabilities of the teleautonomy p 184 A93-27035

hadteat BRUNT, MARK

Advances in training technology and the role of the p 98 A93-18775 instructor

BRYFOGLE, MARK D.

Kinematics and control of a fully parallel force-reflecting hand controller for manipulator teleoperation

p 364 A93-45598 BRZEZINSKI, AMNON

Melatonin in human preovulatory follicular fluid

p 215 A93-32474 The pineal gland - Its possible roles in human production p 204 A93-33036 reproduction

Skeletal muscle responses to unloading with special p 166 A93-28718

reference to man BUCK, COURTNEY A. Hyperbaric treatment operations aboard Space Station

Freedom SAE PAPER 921142] p 292 A93-41328

BUCKEY J. C. Effects of head-down tilt for 10 days on the compliance p 162 A93-28680 The effects of a 10-day period of head-down tilt on the

cardiovascular responses to intravenous saline loading p 163 A93-28686

BUCKEY, JAY C.

Role of atrial natriuretic peptide in systemic responses p 44 A93-14968 to acute isotonic volume expansion BUCKLEY, J. C.

Cardiovascular response to lower body negative pressure before, during, and after ten days head-down p 162 A93-28681

BUE, GRANT C. ASDA - Advanced Suit Design Analyzer computer

ISAE PAPER 921381 p 308 A93-41539

BUEKER, RICHARD

Health maintenance facility system effectiveness testina

|NASA-TM-104737| p 372 N93-32328

BUETHE, SCOTT
The USAF Test Pilot School flight control systems

I AIAA PAPER 92-4067 I p 24 A93-11253 BUFFETT, A. R.

Pilot decision aiding for weapon delivery: A novel approach to fire control cueing using parallel computi n 317 N93-28853 BUGROV, S. A.

Occupational health problems in aviation medicine p 252 A93-36743 Main medical results of extended flights on Space Station Mir in 1986-1990 p 386 A93-52401

BUICK, F. The effects of variations in the anti-G straining maneuver

on blood pressure at +Gz acceleration p 118 A93-25204

BULA, R. J.

A matrix-based porous tube water and nutrient delivery

[SAE PAPER 921390] p 309 A93-41548 Scenarios for optimizing potato productivity in a lunar p 67 N93-13997

Potential of derived lunar volatiles for life support p 67 N93-13998

BULEKBAEVA, L. EH.

Correlation between the lymph dynamics and venous pressure during short-term antiorthostatic effects

p 325 A93-43070

PERSONAL ALITHOR INDEX **CARLILE, SIMON**

BULGAJEWSKI, PETER J.

Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF)

[SAE PAPER 921186] p 294 A93-41365

BULL GEORGE C.

Helmet mounted display with multiple image sources p 227 A93-30057

BULLOCK, THEODORE H.

Comparative analytical study of evoked and event related potentials as correlates of cognitive processes |AD-A261388| p 261 N93-26446

BULYGINA, M. IU.

Psychophysiological studies of acute hypoxic hypoxia p 91 A93-18417

BUMBA, W.

Development and implementation of the MotoMir experiment on the Mir Space Station

p 220 N93-24363

BUNGO, MICHAEL W.

Blood and urine responses to ingesting fluids of various salt and glucose concentrations p 83 A93-17528 Orthostatic function during a stand test before and after p 84 A93-17530 head-up or head-down bedrest Pharmacologic considerations for Shuttle astronauts p 85 A93-17537

Echocardiographic evaluation of the cardiovascular effects of short-duration spaceflight p 87 A93-17551 Cardiovascular physiology in space flight

p 93 A93-20654

BURAVKOVA, L. B.

Effect of exercise and bisphosphonate on mineral balance and bone density during 360 day antiorthostatic p 170 A93-28760

BURGE, CAROL G.

Human factors problems for aircrew-aircraft interfaces - Where should we focus our efforts?

p 264 A93-37300 Human factors problems for aircrew-aircraft interfaces: Where should we focus our efforts? p 144 N93-19759

BURGE, JANET M. Living and working in space - Evolution of nursing in a new environment p 166 A93-28710

BURGGRAF, SIGFRIED

Life in hot springs and hydrothermal vents

p 243 A93-36559

BURIKOV, A. A. Electrophysiological and ultrastructural aspects of the effect of high-pressure oxygen on the sensomotor cortex p 77 A93-18300

of the rat brain **BURKE, DONALD S.**

AIDS/HIV in the US Military p 16 N93-11291

BURKE, THOMAS G.

13 C NMR spectra of allosteric effectors of hemoglobin

AD-A262979] p 284 N93-28293

BURKOVSKAIA, T. E.

HROVSKAIA, 1. E.

Hematologic status of rats born and grown in a
vneroravity environment p 239 A93-35212 hypergravity environment Healing of fractured bone in rats during readaptation following 14-day suspension p 241 A93-35260

BURLATON, J. P.

Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304 Lipodystrophies in the French military flight crew p 362 N93-32249

BURLATSCHKOVA, N.

Eye-head-arm coordination and spinal reflexes in p 236 N93-24362 weightlessness

BURLEY, JAMES R., II

Evaluation of conformal and body-axis attitude information for spatial awareness p 229 A93-30070 Predictive nosepointing and flightpath displays for p 229 A93-30071 air-to-air combat

BURR, ROBERT E.

Medical aspects of cold weather operations: A handbook for medical officers p 336 N93-30588

BUSHOV, YU. V.

Analysis of individual differences between psychological reactions of humans under combined hypoxic stress p 388 A93-51115

BUSQUETS, ANTHONY M.

Benefits, limitations, and guidelines for application of stereo 3-D display technology to the cockpit p 350 A93-44895 environment Depth-viewing-volume increase by collimation of stereo p 407 A93-52915 3-D displays BUTCHER, H. K.

The overview effect - The impact of space exploration on the evolution of nursing science p 155 A93-28722 **BUTKUS, KATHERINE**

An evaluation of miniaturized aircraft keyboards

p 348 A93-42844

BUTLER BARCLAY PHELPS

Helmeted head and neck dynamics under whole-body p 264 N93-25531

BUTLER G C

Evaluation of spontaneous baroreflex response after 28 days head down tilt bedrest p 386 A93-52404 BUTLER, JEREMY

Airline training for advanced technology cockpits p 24 A93-13411

BUTTO, S.

HIV variability and perspectives of a vaccine

BYCHKOVA. E. IU.

Dynamics of the central and peripheral circulation of active rats on the first day of antiorthostatic hypokinesia (The role of training) p 242 A93-35261 BYERS JAMES C.

p 16 N93-11294

Application and validation of workload assessment

techniques [AD-A264575] p 366 N93-32012

BYERS, S.

Carbon monoxide exposure of subjects with documented cardiac arrhythmias p 337 N93-30890

IPB93-1799431 BYGBJERG. I.

Influence of in vivo hypobaric hypoxia on function of lymphocytes, neutrocytes, natural killer cells, and p 280 A93-41123 cytokines

BYRNE, JENNIFER C.

An analytical model of the aircrew oxygen breathing system p 137 A93-25123

BYRNE, JOHN H.

Analysis and synthesis of adaptive neural elements and assemblies

AD-A259954 J p 219 N93-24247

BYRNE MARK T.

Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) p 30 N93-10288 [AD-A253394]

Effects of running the Bostom Marathon on plasma concentrations of large neutral amino acids

p 160 A93-27048 A balanced carbohydrate:protein diet in the management of Parkinson's disease p 153 A93-27918

CABALLERO, BENJAMIN

Differential effects of insulin resistance on leucine and p 152 A93-27224 glucose kinetics in obesity Facilitation of levodopa-induced dyskinesias by dietary p 203 A93-33029 carbohydrates

Study of the spectrum of power of cardiac rhythm during tasks relating to the safety of the control of an p 127 N93-19707 Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 CABRAL, F.

Civil aviation and cardiology - Admission rules and follow-up of the technical flying personnel of TAP-Air p 164 A93-28699 Portugal

CADOGAN, DAVID

Enhanced softgoods structures for spacesuit micrometeoroid/debris protective systems |SAE PAPER 921258| p 299 A93-41428

Predicting increases in skin temperature using heat stress indices and relative humidity in helicopter pilots p 167 A93-28729

CAIOZZO, VINCE J.

Activity-induced regulation of myosin isoform distribution - Comparison of two contractile activity programs p 326 A93-44183

CAIRNS-SMITH, A. G.

Mineral theories of the origin of life and an iron sulfide p 74 A93-18009 example p 74 A93-18010 CALDARELLA, GERALD J.

Studies of a laser/nuclear thermal hardened body IAD-A2551281 p 34 N93-12423

CALDEIRA, KEN

The life span of the biosphere revisited p 149 A93-21847

CALDERONE, JACK B.

Factors influencing perceived angular velocity

p 97 A93-17800 CALDWELL, J. L.

Documentation of activity and rest of a U.S. National

p 9 A93-10338 Guard attack helicopter battalion The relationship between computer scoring and safety-pilot grading of flight performance p 58 N93-14600 IAD-A2562451

Effects on physiology and performance of wearing the aviator NBC ensemble white flying the UH-60 helicopter flight simulator in a controlled heat environment

p 235 N93-23995 LAD-A2599091

CALDWELL, J. LYNN

The effects of cockpit heat on aviator sleep parameters p 371 N93-32266

CALDWELL, JOHN A.

The relationship between computer scoring and safety-pilot grading of flight performance p 58 N93-14600 IAD-A2562451

CALDWELL, JOHN A., JR.

Effects of 2 mg and 4 mg atropine sulfate on the performance of U.S. Army helicopter pilots

p 7 A93-10326

Effects of terfenadine and diphenhydramine on brain activity and performance in a UH-60 flight simulator | AD-A258012 | p 119 N93-1 p 119 N93-17817

The use of electrophysiological and cognitive variables in the assessment of degradation during periods of sustained wakefulness

n 283 N93-27923 IAD-A2630331

CALDWELL, LYNN

The physiological consequences of simulated helicopter flight in NBC protective equipment p 117 A93-24049 Effects of microclimate cooling on physiology and performance while flying the UH-60 helicopter simulator in NBC conditions in a controlled heat environment

LAD-A2585021 CALIANI, SILVESTRU

Fractures of the vertebral column after ejection

p 46 A93-15575

p 129 N93-20400

n 112 A93-24047

CALKINS, D. S. Vestibular ataxia following shuttle flights - Effects of microgravity on otolith-mediated sensorimotor control of

p 169 A93-28750 Human performance and physiological function during a 24-hr exposure to 1 percent bromotrifluoromethane p 277 A93-39704 (Halon 1301)

CALKINS, DICK S.

Time to detection of circulating microbubbles as a risk factor for symptoms of altitude decompression sickness p 46 A93-16153

CALLAGHAN, THOMAS F.

Operational space human factors - Methodology for a DSO p 293 A93-41339

(SAE PAPER 921156) CAMM, A. J.

p 215 A93-32778

Cardiac pacing and aviation

CAMMAROTA, JOSEPH P. The effect of G-LOC on psychomotor performance and p 130 A93-25205

CAMPBELL, BRUCE L.

Helmet-mounted systems technology planning for the p 227 A93-30052 future

CAMPBELL, MARK R.

Animal surgery in microgravity CAMPIONE, MARINA Myosin and troponin changes in rat soleus muscle after p 273 A93-41124 hindlimh suspension

CANFIELD, DENNIS V.

The identification and quantitation of triamterene in blood and urine from a fatal aircraft accident

p 49 N93-12612 Enhancement of drug detection and identification by use of various derivatizing reagents on GC-FTIR analysis AD-A2555821 p 95 N93-16041

CANNON-BOWERS, JANIS A.

The role of mental models in team performance in complex systems CAO. KE-YING p 262 A93-34985

Increased normoxic ventilation induced by repetitive p 79 A93-20037 hypoxia in conscious dogs CAPUTO, M.

Intraocular pressure and retinal vascular changes during

transient exposure to microgravity CARDEN, JAMES R. p 278 A93-39710

Bar-holding prosthetic limb [NASA-CASE-MFS-28481-1] p 70 N93-14870 CARDINALE, M. A.

Kennedy Space Center environmental health program

p 166 A93-28713 CARETTI, DAVID M. Effect of protective clothing ensembles on artillery

battery crew performance [AD-A254327] p 64 N93-12960

CARLE, GLENN C.

Exobiology in Solar System Exploration [NASA-SP-512] p 1 p 112 N93-18545 Overview: Exobiology in solar system exploration

CARLILE, SIMON

The effects of chronic hypoxia on human auditory system sensitivity p 89 A93-18041

p 112 N93-18546

CARLSON, DENNIS L.

Design of a resistive exercise device for use on the Space Shuttle

INASA-CR-192079 n 108 N93-17805

CARMONA, J.

Civil aviation and cardiology - Admission rules and follow-up of the technical flying personnel of TAP-Air p 164 A93-28699

CARNES, JAMES R.

The ECLSS advanced automation project evolution and technology assessment p 312 N93-27723 CARPENTER, SHELLY

Kinetics is peptide hydrolysis and amino acid decomposition at high temperature p 411 A93-53289 CARPITA, NICHOLAS C.

Cell wall and enzyme changes during the graviresponse of the leaf-sheath pulvinus of oat (Avena sativa)

CARR. CHARLES A.

Lunar subsurface architecture enhanced by artificial p 107 N93-17448 biosphere concepts

p 329 A93-44941

CARR. SANDRA E.

Biofilm formation and control in a simulated spacecraft water system - Three year results ISAE PAPER 9213101 p 303 A93-41472

CARRETTA, THOMAS R.

Short-term retest reliability of an experimental U.S. Air Force pilot candidate selection test battery p 56 A93-15661

Recent developments in U.S. Air Force pilot candidate selection and classification p 97 A93-18046 Pilot Candidate Selection Method (PCSM): What makes

it work?

[AD-A262871] p 340 N93-29481

CARROLL AMY E.

Astronaut candidate strength measurement using the Cybex 2 and the LIDO Multi-Joint 2 dynamometers [NASA-CR-185679] p 34 N93-12195

Methodology issues concerning the accuracy of kinematic data collection and analysis using the ariel performance analysis system

INASA-CR-1856891 n 34 N93-12211

CARROLL, L. W.

Carbon monoxide exposure of subjects with documented cardiac arrhythmias

p 337 N93-30890 IPB93-1799431

CARSWELL, C. M.

Choosing specifiers - An evaluation of the basic tasks p 102 A93-19985 model of graphical perception

CARTER, D. C.

Structure of a human monoclonal antibody Fab fragment against gp41 of human immunodeficiency virus type

p 153 A93-28698

CARTER, DANIEL C.

Atomic structure and chemistry of human serum p 200 A93-31628 Structure of a human monoclonal antibody Fab fragment

against gp41 of human immunodeficiency virus type 1 p 203 A93-32850

Amino acid sequences for the binding regions in serum albumin protein: INASA-CASE-MES-28402-11 p 276 N93-28952

CARTER, DAVID J.

Effects of 2 mg and 4 mg atropine sulfate on the performance of U.S. Army helicopter pilots

p 7 A93-10326 The relationship between computer scoring and

safety-pilot grading of flight performance p 58 N93-14600 LAD-A2562451

CARTER, DONALD L.

Catalytic oxidation for treatment of ECLSS and PMMS

ISAE PAPER 9212741 p 301 A93-41443

Determination of organic carbon and ionic accountability of various waste and product waters derived from ECLSS water recovery tests and Spacelab humidity condensate [SAE PAPER 921313] p 303 A93-41475

CARTER, RUTH C.

Safety issues of manipulator systems under computer p 192 A93-29121 control

CASALE, E.

Structure of a human monoclonal antibody Fab fragment against gp41 of human immunodeficiency virus type p 153 A93-28698

CASALE, ELENA

Structure of a human monoclonal antibody Fab fragment against gp41 of human immunodeficiency virus type 1 p 203 A93-32850

CASON RANDALL W.

Helicopter night vision goggle testing in the United p 148 N93-19917 Kingdom

CASSONE, VINCENT M.

Melatonin, the pineal gland, and circadian rhythms p 337 N93-31061 [AD-A264099]

CASTELAIN M

Occupational dermatitis in the aircraft industry - 35 years p 215 A93-32776

CASTELAIN, P. Y.

Occupational dermatitis in the aircraft industry - 35 years p 215 A93-32776 of progress

CASTRO, NORMA I.

Preliminary design of a radiator shading device for a lunar outnost INASA-CR-1920161 p 139 N93-18019

CATTANI, M.

Chiral-symmetry-breaking in nonequilibrium chemical systems - The racemization influence

n 269 A93-36563

p 289 A93-41175

p 89 A93-18044

CAVALETTI G

Long-lasting neuropsychological changes after a single high altitude climb p 278 A93-39713

CAVANAGH, P. R.

Simulating reduced gravity - A review of biomechanical issues pertaining to human locomotion

CAYCE, WALTER R.

Myocardial infarction occurring at the conclusion of centrifuge training in a 37-year-old aviator

The influence of dietary counseling and cardiac catheterization on lipid profiles in American military

CERESIA, P. J.

The Canadian forces airsickness rehabilitation program, 1981-1991 p 89 A93-18042

CERRETELLI, PAOLO

Protein absorption and energy digestibility at high p 115 A93-21683

CETINGUC, MUZAFFER

An assessment of Turkish Air Force pilots' anxiety and p 23 A93-10334 depression levels Assessment of morale in Turkish Air Force pilots with two clinical psychological tests p 133 N93-19660 Gremlins: A dozen hazardous thought and behavior p 134 N93-19709 patterns as risk factors Effectiveness of birthdate biorhythm theory on flight

p 127 N93-19710 CHABANON, C.

Contribution of the analysis of ocular activity (complementary to the electroencephalographic analysis) to the detection of low vigilance in instances of piloting p 127 N93-19708

CHACHULA, SANDRA K.

Performance measurement systems: A best practices

IAD-A2621801

p 350 N93-29444 CHAIDAKOV, M. Influence of microgravity on immune system and genetic

p 160 A93-26572 information CHAITMAN, B. R.

Carbon monoxide exposure of subjects with documented cardiac arrhythmias [PB93-179943] p 337 N93-30890

CHAMBERI AND D

Controlled ecological life-support system - Use of plants for human life-support in space p 190 A93-28715 CHAMBERLAND, DENNIS

Advanced life support systems in lunar and Martian environments utilizing a higher plant based engineering paradigm

SAE PAPER 921286 p 302 A93-41452

CHAMBERS, LAWRENCE P.

Life sciences utilization of Space Station Freedom p 205 N93-22622

CHAMBERS, RANDALL M.

Individual differences in computerized test performance for systems integration in cockpit management p 177 A93-27176

CHAMIS, CHRISTOS C.

Probabilistic simulation of the human factor in structural reliability p 365 N93-31573

CHAMMAS, ELIE

Intracardiac hemodynamics in man during short periods f head-down and head-up tilt p 117 A93-24044 of head-down and head-up tilt CHAN, GRACE

Industrial design influence on today's flight decks p 61 A93-14378

CHAN, J. K.

On the control of a class of flexible manipulators using p 231 A93-31533 feedback linearization approach

CHANDANA, JAGDISH Body fluid compartments, renal blood flow, and hormones at 6,000 m in normal subjects

CHANDRASHEKHAR, Y.

Body fluid compartments, renal blood flow, and hormones at 6,000 m in normal subjects

p 281 A93-41125

p 281 A93-41125

CHANG, C. A.

System for generating dynamic video imagery for human factors research

1AD-A2486751 p 31 N93-11743

CHANG, CHI-MIN

ASDA - Advanced Suit Design Analyzer computer orogram

SAE PAPER 921381

p 308 A93-41539

CHANG, CRAIG H.

Portable life support system regenerative carbon dioxide and water vapor removal by metal oxide absorbents preprototype hardware development and testing p 303 A93-41464 ISAE PAPER 9212991

CHANG, S. K.

Biophysical model for handwear insulation testing IAD-A2629261 p 320 N93-28884 CHANG, S.-R.

Cell wall and enzyme changes during the graviresponse of the leaf-sheath pulvinus of oat (Avena sativa)

p 329 A93-44941

Endotoxin priming followed by high-altitude causes p 323 A93-42186 pulmonary edema in rats

CHANG, SHERWOOD

p 113 N93-18548 The Moon: Biogenic elements CHANTON, JEFFREY P.

Methane transport mechanisms and isotopic fractionation in emergent macrophytes of an Alaskan p 38 A93-16544 tundra lake

CHAPARRO, A.

Colour is what the eye sees best p 159 A93-26245 The effects of luminance boundaries on color nercention

[AD-A250705] p 22 N93-11841

CHAPES, S. K.

Effects of antiorthostatic suspension and corticosterone on macrophage and spleen cell function

p 153 A93-28693 Cytokine secretion by immune cells in space

p 153 A93-28694

CHAPIN, WILLIAM L. Virtual environment display for a 3D audio room mulation p 408 A93-53125

CHAPMAN, DAVID K.

Investigation of wheat coleoptile response to phototropic

stimulations [NASA-CR-192157] p 114 N93-18608 A proposal to determine properties of the gravitropic

response of plants in the absence of a complicating g-force (GTHRES) NASA-CR-1922191 p 114 N93-19377

CHAPMAN, F. W. The advent of helmet-mounted devices in the combat

aircraft cockpit - An operator's viewpoint

p 227 A93-30056 CHARLES, J. Intraocular pressure and retinal vascular changes during p 278 A93-39710 transient exposure to microgravity

CHARLES, JOHN B.

Blood and urine responses to ingesting fluids of various salt and glucose concentrations p 83 A93-17528 Orthostatic function during a stand test before and after head-up or head-down bedrest p 84 A93-17530 Acute hemodynamic response to weightlessness during

parabolic flight p 86 A93-17547 Changes in total body water during spaceflight

p 86 A93-17548 Cardiovascular adaptation to spaceflight

p 86 A93-17550 Echocardiographic evaluation of the cardiovascular effects of short-duration spaceflight p 87 A93-17551

Cardiovascular physiology in space flight

p 93 A93-20654 Cerebral blood velocity and other cardiovascular responses to 2 days of head-down tilt

p 280 A93-41122

CHATURVEDI, ARVIND K.

time-to-incapacitation carboxyhemoglobin values in rats exposed to two carbon monoxide concentrations

[DOT/FAA/AM-93/7] p 274 N93-27152 Variations in time-to-incapacitation and blood cynanide values for rats exposed to two hydrogen cyanide gas

concentrations [DOT/FAA/AM-93/8]

CHAU, ALBERT W. Pilot performance with blood alcohol concentrations below 0.04 percent p 46 A93-16151

CHEATHAM, JOHN B.

Grasp synthesis for planar and solid objects

p 184 A93-27034 Testbed for remote telepresence research

p 193 A93-29135

p 283 N93-27158

B-10

CHEBOTAREV, EVGENII E.

Ion transport across membranes under exposure of the organism to ionizing radiation

IISBN 5-12-001601-41

CHELAFLORES, J.

p 243 A93-35679

Spontaneous regulating mechanisms that may have led to the origin of life

·IDE93-6036771

p 331 N93-31161

CHELEN, WILLIAM Computerized task battery assessment of cognitive and

performance effects of acute phenytoin motion sickness p 211 A93-30278

Phenytoin as a countermeasure for motion sickness in NASA maritime operations p 401 A93-55162

CHELEN, WILLIAM E.

Spectral analysis of the electroencephalographic response to motion sickness p 116 A93-24041

CHELETTE, TAMARA L.

Cerebral blood flow during | Gz acceleration measured by transcranial Doppler p 84 A93-17532 Development of a tactile perceived attitude transducer IAD-A2537241 p 25 N93-11081

CHELI-MERCHEZ, M.

European astronaut candidates in training in the CIS p 256 A93-34593

CHEN, CHUN-YU M.

Electrically modifiable nonvolatile SONOS synapses for electronic neural networks

[AD-A258318] p 122 N93-18252

CHEN, DI-MING Changes of cAMP and cGMP content in plasma and

urine before and after parallel swing stimulation

p 213 A93-30435 CHEN, J. J.

Aerobic fitness. I - Response of volume regulating hormones to head-down tilt p 167 A93-28721 CHEN, JI-GUANG

Neurobehavioral test in civil aviation flight personnel

p 223 A93-30443 CHEN, JIN-DUN

Dynamic multiobjective decision and its application in environmental control and life support system p 230 A93-30439

CHEN, L. X. Q.

Nonlinear optical properties of porphyrin and chlorophyll dimers studied by degenerated four wave mixing p 210 N93-24028

DE93-0064111 CHEN MEL

Radiation dose measurement and biostack experiment in biocabin on board satellite p 327 A93-44845 CHEN. REN

A new protective breathing apparatus

p 29 A93-13535 CHEN, SHANGUANG

Study of overall analysis method of the man-machine-environment systems p 61 A93-14413 Evaluation of speech technology for enhancing performance of man-machine systems

p 350 A93-44846 CHEN. Y. M.

Atrial natriuretic peptide degradation by CPA47 cells -Evidence for a divalent cation-independent cell-surface proteolytic activity p 155 A93-28726

CHEN. YU-CHE

Grasp synthesis for planar and solid objects

p 184 A93-27034 CHEN. YU-CHUN

A four-pole electric swing and its application to the p 103 A93-19999 research on vestibular function CHEN, YUNG

Dynamic analysis to evaluate viscoelastic passive damping augmentation for the Space Shuttle Remote Manipulator System p 28 A93-12222

CHENG, REI Computer-assisted three-dimensional reconstruction simulations of vestibular macular neurai p 104 A93-20700 connectivities

CHENG, ZILONG

A study of human brain somatosensory evoked potential and its application to man-machine-environment system engineering - Preliminary exploration of SEP in normal p 12 A93-13719

CHEPRASOV, V. IU.

Application of contrasting temperatures as a method of preadapting pilots to the conditions of a hot climate p 45 A93-15166

CHERNIAKOV, I. N.

New aspects of using hyperbaric oxygenation in aviation p 252 A93-36742 medicine

CHEUNG, B. S. K.

Alterations of proprioceptive function in the weightless p 86 A93-17549 environment

CHEUNG, EDWARD

Recent developments at the Goddard Engineering Test p 192 A93-29115 CHIARAMONTE, JIM A.

The use of electrophysiological and cognitive variables in the assessment of degradation during periods of sustained wakefulness I AD-A263033 I

CHIARENZA, O.

p 283 N93-27923

The European astronauts training programme

CHIASERA, AUGUST J.

p 226 N93-24346

Research on sleep, circadian rhythms and aging -Applications to manned spaceflight p 94 A93-20658 CHIEN, C. H.

An experiment in vision based autonomous grasping within a reduced gravity environment

p 193 A93-29137 CHIMENTO, THOMAS

Computer-assisted three-dimensional reconstruction and simulations of vestibular macular connectivities p 104 A93-20700

CHIMONAS, E.

Allergic and nonallergic rhinitis in Greek pilots p 21 N93-11317

CHIN, KERIC B. O.

Introduction to training decisions modeling technologies: The training decisions system

IAD-A2498621 CHINKIN, A. S.

p 27 N93-12252

The adrenalin/noradrenalin and the alpha/beta adrenoreceptor correlations in the myocardium and the adrenergic chronotropic and ionotropic reactions under extreme conditions and during adaptation

p 1 A93-10125 CHINNIS, JAMES O., JR.

Real-time expert system interfaces, cognitive processes, and task performance - An empirical assessment

CHIOU, PETER C.

Kinematics and control of a fully parallel force-reflecting hand controller for manipulator teleoperation

p 364 A93-45598

p 394 A93-52503

CHIRIKJIAN, GREG Telerobot control mode performance assessment

[AAS PAPER 92-053] p 392 A93-50593

CHIRUVOLU, RAVI

Virtual display aids for teleoperation p 183 A93-27029

CHOI, HONGYUNG

Altered immunological response in mice subjected to stress and exposed to fungal spores [SAE PAPER 921215] p 274 A93-41391

CHONG, R.

Visual specification of robot motion

p 348 A93-42845

CHRIST, RICHARD E. Application and validation of workload assessment

techniques p 366 N93-32012 IAD-A2645751

CHRISTENS-BARRY, WILLIAM A.

Automated system for early breast cancer detection in p 253 N93-25568 mammograms

CHRISTENSEN, C. C.

Portable equipment developed to estimate energy expenditure by simultaneous recording of heart rate and body position p 368 N93-32243 Changes in some lifestyle parametres in Norwegian

pilots as students, and after 6 and 12 years of service p 370 N93-32261

CHRISTENSEN, CAROL A.

Antagonistic otolith-visual units in cat vestibular nuclei p 199 A93-30511

CHRISTENSEN, N. J.

Arterial pulse pressure and vasopressin release in humans during lower body negative pressure p 360 A93-47096

CHRISTENSEN, NIELS J. Volume-homeostatic mechanisms in humans during a

p 387 A93-52620 12-h posture change CHRISTOPHERSEN, A.

Portable equipment developed to estimate energy expenditure by simultaneous recording of heart rate and body position p 368 N93-32243

CHROMIAK, JOSEPH

Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism p 282 N93-27102 INASA-CR-1930411

CHROMIAK, JOSEPH A.

Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis

[NASA-CR-193040] p 222 N93-24763

CHRYSTALL, KEITH

Knowledge-based task planning for the Special Purpose Dextrous Manipulator p 191 A93-29110 CHUANG, SHERRY

Dark cycle monitoring of biological specimens on Space Station Freedom

| SAE PAPER 921393 | p 274 A93-41551

CHUBB. C. B.

Effects of maglev-spectrum magnetic field exposure on CEM T-lymphoblastoid human cell growth and differentiation

CHUGUNOV, V. S.

The asthenic syndrome and the dynamics of mental-work capacity p 256 A93-35241

CHULKOVA, G. F. Effect of an attenuated geomagnetic field on the cellular composition of the epithelial-spermogenous layer of rat p 240 A93-35229 testes

CHUNG, H. M.

Early amphibian (anuran) morphogenesis is sensitive to p 156 A93-28745 novel gravitational fields CHURCH, T. O.

System automation and pilot-vehicle-interface for unconstrained low-altitude night attack

p 320 N93-28867

p 96 N93-16552

CHURILOV, IU. K. The role of rheoencephalography in the practice of aviation medicine p 160 A93-27649

CHYBA, CHRISTOPHER F. The violent environment of the origin of life - Progress

and uncertainties p 412 A93-53292 CIAN. C. Effects of sleep deprivation on the cognitive capacities

of visuo-spatial representation and orientation p 129 A93-21870

CINK, T. M.

Operation Everest II - Spirometric and radiographic changes in acclimatized humans at simulated high p 383 A93-49574 altitudes

CINTRON, N. M. Metabolic changes observed in astronauts

p 84 A93-17535 Alteration in human mononuclear leucocytes following space flight p 165 A93-28705

CINTRON, NITZA M.

Pharmacokinetics and Pharmacodynamics in Space [NASA-CP-10048] p 333 N93-29502 p 333 N93-29502 CIOLETTI, LOUIS A.

Microbiology operations and facilities aboard restructured Space Station Freedom

[SAE PAPER 921213] p 296 A93-41389 CISCON, LAWRENCE A.

A distributed telerobotics system for space operations p 192 A93-29132 CLAPP, MITCHELL B.

The USAF Test Pilot School flight control systems [AIAA PAPER 92-4067] p 24 A93-11253

CLAPPER, JOHN P. Spontaneous discovery and use of categorical structure

[AD-A261658] p 260 N93-26364 CLARDY, W. F.

Viral hepatitis in the US Air Force, 1980 - 1989 p 15 N93-11287

CLARDY, WILLIAM F. Susceptibility in USAF recruits to vaccine preventable p 18 N93-11301

CLARK, BENTON C. Shielding strategies for human exploration missions [SAE PAPER 921376] p 308 A93-41534 Human habitat design for the Space Exploration

Initiative CLARK, E. P.

Recommended radiobiological studies Lunar-Based Chemical/Biological/Medical Analysis Laboratory (LBCAL) p 39 A93-17429

CLARK, J. Medical evaluation of spatial disorientation mishaps

p 134 N93-19703

CLARK, JONATHAN B. Spatial disorientation and dysfunction orientation/equilibrium reflexes - Aeromedical evaluation and considerations p8 A93-10336 ical aeromedical p 385 A93-52305 Risk assessment and clinical decision-making

CLARK, WAYNE

Effects on physiology and performance of wearing the aviator NBC ensemble while flying the UH-60 helicopter flight simulator in a controlled heat environment

(AD-A259909) p 235 N93-23995

CLARKE, A. H. Dynamic analysis of ocular torsion in parabolic flight p 386 A93-52405 using video-oculography

CLARKE LAURENCE P

A comparison of neural network and fuzzy clustering techniques in segmenting magnetic resonance images of p 214 A93-31267 the brain

D 344 A93-41978

CLARKSON, G. J. N. PERSONAL AUTHOR INDEX

Digital mammography, cancer screening: Factors p 221 N93-24551 important for image compression CLARKSON, G. J. N.

The advent of helmet-mounted devices in the combat aircraft cockpit - An operator's viewpoint

p 227 A93-30056 CLARKSON, THOMAS W.

NASA Specialized Center for Research and Training (NSCORT) in space environmental health

[SAE PAPER 921358] p 307 A93-41517 CLAUSEN, E. C.

Biological conversion of synthesis gas culture development

p 6 N93-12482 CLERE, J. M.

G-load effects and efficient acoustic parameters for robust speaker recognition_ p 146 N93-19775

CLEVELAND, GARY A. Distributed environmental control p 32 N93-11924

Cardiovascular responses to lower body negative pressure in trained and untrained older men

p 115 A93-21686 COBB, B. L.

Behavioral effects of high peak power microwave pulses: Head exposure at 1.3 GHz

AD-A2581361 p 120 N93-17985 COBLENTZ A

Study of the spectrum of power of cardiac rhythm during tasks relating to the safety of the control of an p 127 N93-19707 annaratus Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 COCHRAN STEVEN D

3-D surface description from binocular stereo

p 61 A93-14727 COGOLI, A.

Effect of head-down tilt bedrest (10 days) on lymphocyte p 163 A93-28684 p 14 N93-11284 reactivity Space flight and immune system COGOLI, AUGUSTO

Cultivation of Hamster Kidney cells in a Dynamic Cell Culture System in space (Spacelab IML-1 mission)

COGOLI, M.

Effect of head-down tilt bedrest (10 days) on lymphocyte p 163 A93-28684 COGOLL MARIANNE

The fast rotating clinostat - A history of its use in gravitational biology and a comparison of ground-based

p 376 A93-49212 and flight experiment results COHEN, BERNARD

NASA supporting studies for microgravity research on eve movements NASA-CR-1932331 p 285 N93-29041

COHEN. M. M.

somesthetic influences on postural Visual and orientation in the median plane p 224 A93-32782 COHEN MARION E

Auditory perception

[AD-A255061] p 23 N93-12469 COHEN MARVINS

Real-time expert system interfaces, cognitive processes, and task performance - An empirical assessmen

p 394 A93-52503

p 382 A93-49566 Back ache in helicopter pilots COLANGELO, TODD

SHARC: Space Habitat, Assembly and Repair Center p 140 N93-18153 [NASA-CR-192031] COLASSON, M.

European involvement in CELSS - Definition of a Closed **Ecological Systems Test Bed**

[SAE PAPER 921200] p 295 A93-41376

COLE, HAROLD

Determination of organic carbon and ionic accountability of various waste and product waters derived from ECLSS water recovery tests and Spacelab humidity condensate [SAE PAPER 921313] p 303 A93-41475

CÒLE, ROBERT E. A low cost helmet-mounted camera/display system for p 408 A93-53122 field testing teleoperator tasks COLICE, GENE L.

Effects of hypoxemia at sea level and high altitude on sodium excretion and hormonal levels p 8 A93-10332 **COLIN, LARRY**

Venus: A search for clues to early biological ossibilities p 113 N93-18549 possibilities

COLLART, F. R. Effects of magley-spectrum magnetic field exposure on

CEM T-lymphoblastoid human cell growth and differentiation p 96 N93-16552 IDE92-0411341

COLLET, JACQUES

The psychological challenge of space

p 339 A93-42658

COLLING, ARTHUR K., JR.

Space Station Water Processor - Current flight design [SAE PAPER 921112]

COLLINS, D. W.

Relationship between G + C in silent sites of codons and amino acid composition of human proteins p 358 A93-47099

COLLINS, DANIEL L.

DoD space radiation concerns

LAD-A2531351 p 13 N93-10613 COLLINS, JAMES A.

Time stress measurement devices for enhancement of p 144 N93-19762 onboard bit performance

COLLINS, S.

An introduction to the information processing components of the brain [RSRE-MEMO-4350] p 25 N93-10979

COLLINS, WILLIAM E.

Poststrike air traffic control trainees - Biodemographic predictors of success in selection and screening

p 56 A93-15664 Some personality and aptitude characteristics of Air p 388 A93-52301 Traffic Control Specialist trainees COLOMBETTI, MARCO

Ontology of mind, subjective ontology, and the example of temporal expressions

IREPT-92-0181 p 26 N93-11212

COLOMBINA, G.

EMATS, a robot-based Equipment Manipulation and Transportation System for the Columbus Free Flying p 231 A93-31522 Laboratory

COLOMBO, GERALD V.

Regenerable biocide delivery unit

[NASA-CASE-MSC-21763-1-SB] p 112 N93-18351 COLON, A. R.

The psychosocial adaptation of children in space - A speculation p 388 A93-50338

COLON, P. A.

The psychosocial adaptation of children in space p 388 A93-50338 speculation

COLSON, P.

Zero-gravity underwater simulations for the Columbus programme - Outcome of the first campaigns

p 62 A93-17075

COLTON JOEL S.

Hydrogen-rated system for in vitro studies at pressure: Operating procedures and emergency procedure IAD-A2641791 p 336 N93-30882

COLVIN. CARAN

Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools

IAD-A2645711 p 363 N93-32011

Occupational dermatitis in the aircraft industry - 35 years p 215 A93-32776 of progress

COMBS, CAROL A.

Conference on Correlations of Aging and Space Effects on Biosystems, Oct. 30-Nov. 1, 1989, Proceedings p 79 A93-20651

COMPERATORE, CARLOS A.

Effects of terfenadine and diphenhydramine on brain activity and performance in a UH-60 flight simulator p 119 N93-17817 I AD-A2580121

The use of electrophysiological and cognitive variables in the assessment of degradation during periods of sustained wakefulness

p 283 N93-27923 I AD-A263033 I

CONE, SCOTT M. Attitude awareness enhancements for the F-16 head-up display

I AD-A260280 I p 236 N93-24168

CONFORTO, A. M.

On the biological effects of cosmic rays - Epidemiological p 239 A93-34858

CONGER, BRUCE C.

ASDA - Advanced Suit Design Analyzer computer program

p 308 A93-41539 SAE PAPER 9213811

CONKIN, JOHNNY

Failure of the straight-line DCS boundary extrapolated to the hypobaric realm p 47 A93-16154 CONKLIN. MARLEN Z.

Operator Performance Support System (OPSS) p 196 N93-22195

CONLAY, L. A.

Effects of running the Bostom Marathon on plasma concentrations of large neutral amino acids

p 160 A93-27048 Alanine increases blood pressure during hypotension p 203 A93-33027

CONNELL, LINDA J.

Age, circadian rhythms, and sleep loss in flight crews p 211 A93-30276 CONNORS, MARY M.

NASA/NSF Workshop on Antarctic Research p 81 N93-16803

CONSTABLE S H

Intermittent cold exposure causes a muscle-specific shift in the fiber type composition in rats p 378 A93-52618 CONVERTING, V.

Cardiovascular physiology - Effects of microgravity p 166 A93-28719

CONVERTING, V. A.

Altered baseline blood volume and the norepinephrine p 43 A93-14123 response to stress in humans Carotid-cardiac baroreflex response and LBNP tolerance p 164 A93-28696 following resistance training Enhanced carotid-cardiac baroreflex response and elimination of orthostatic hypotension 24 hours after acute p 216 A93-32781 exercise in parapleoics

CONVERTINO, VICTOR A.

Effects of acute exercise on attenuated vagal baroreflex p 48 A93-16160 function during bed rest

CONWAY, LYNN

Incorporating robot vision in tele-autonomous systems p 184 A93-27031

CONWAY, MATTHEW

A literature survey for virtual environments - Military flight simulator visual systems and simulator sickness

p 387 A93-49406 CONWAY, TERRY L.

Smoking status and body composition, exercise, dietary intake, and alcohol/caffeine consumption

p 23 N93-11893 IAD-A2506481 The US Navy Healthy Back Program: Effect on back knowledge among recruits

1 AD-4258368 I n 121 N93-18210

COOK, ANTHONY

A demonstration of motion base design alternatives for the National Advanced Driving Simulator

[NASA-TM-103881] p 236 N93-24490

COOK, GARY W.

Experimental studies on the origin of the genetic code and the process of protein synthesis - A review update p 73 A93-17822

COOK, J. E.

Sustaining health and performance in the cold: Environmental medicine guidance for cold-weather

p 23 N93-12145 IAD-A2543281 Sustaining health and performance in the cold: A pocket

guide to environmental medicine aspects of cold-weather operations p 218 N93-24021

[AD-A259625]

COOK, T. J.

Nutrition for a typical MAC crew during Desert Storm p 368 N93-32245

COOK, TAMMY J.

The lifestyle and dietary consumption patterns of United States Air Force aviators within air training command at Randolph Air Force Base, Texas p 369 N93-32257 COOKE, DOUGLAS

Future needs for space robots for SEI

p 182 A93-27002

COOLEY, C. G.

An integrated human/plant metabolic mass balance p 347 A93-42130 **COOLEY, CAROLYN** Human habitat design for the Space Exploration

Initiative

p 344 A93-41978 COOLEY, CAROLYN G. Lunar base pressure, O2 fraction, and ExtraHabitat p 346 A93-42125

Activity suit design

COOPER, ERIC G. Interactive Scene Analysis Module - A sensor-database

fusion system for telerobotic environments p 184 A93-27032

COOPER, LEON N.

Theory of synaptic plasticity in visual cortex p 224 N93-23960 [AD-A260052] Theory of synaptic plasticity in visual cortex p 219 N93-24238

[AD-A260322] COOTE, J. H.

Respiratory changes and structure of sleep in young high-altitude dwellers in the Andes of Peru p 383 A93-49569

CORBIN, BARBARA J.

Defining contamination control requirements for non-human research on Space Station Freedom [SAE PAPER 921386] p 308 A93-41544 CORDES, ED

Crew Health Care Systems installations for Space Station Freedom

ISAE PAPER 921249 | p 298 A93-41420

CORNELISSEN. G.

Chronobiology in a moon-based chemical analysis and physiologic monitoring laboratory p 48 A93-17439 CZERWINSKI, B. S.

PERSONAL AUTHOR INDEX CORNUM, RHONDA L. The use of extended wear contact lenses in the aviation environment: An Army-wide study LAD-A2609381 p 255 N93-26218 CORNUM, RHONDA L. S. Documentation of activity and rest of a U.S. National Guard attack helicopter battalion p 9 A93-10338 CORNWALL, MARK W. Electromyographic activity while performing the anti-G straining maneuver during high sustained acceleration p 47 A93-16155 CORRIVEAU, P. Histochemical and contractile responses of rat medial gastrocnemius to 2 weeks of complete disuse p 157 A93-28752 CORSICO, A. In vivo and in vitro diagnosis of allergic respiratory disease during screening procedures in the Italian Navy: Comparative evaluation of a recent quantitative automatized enzyme immunoassay method to dose specific IqE p 21 N93-11314 CORSIN, ALAIN Hypoxia-induced downregulation of beta-adrenergic eceptors in rat heart p 37 A93-14973 COSTE. T. Reduction of postprandial lipemia after acute exposure p 382 A93-49567 to high altitude hypoxia COSTES-SALON, MARIE-CLAUDE Balance and gait analysis after 30 days -6 deg bed rest - Influence of lower-body negative-pressure sessions p 48 A93-16161 COTTET-EMARD, J. M. Differential effects of long-term hypoxia on norepinephrine turnover in brain stem cell groups

COTTET-EMARD, JEAN-MARIE

Norepinephrine content in discrete brain areas and neurohypophysial vasopressin in rats after a 9-d spaceflight (SLS-1) p 273 A93-41167 COURT, L. A.

p 78 A93-20030

Evaluation of zolpidem on alertness and psychomotor abilities among aviation ground personnel and pilots

p 401 A93-55163

COWING, KEITH L. Possible biomedical applications and limitations of a variable-force centrifuge on the lunar surface: A research tool and an enabling resource p 83 N93-17458

COWINGS, PATRICIA S. Autogenic-feedback training - A treatment for motion and space sickness p 404 A93-55946

COX. C. S. Roles of water molecules in bacteria and viruses

p 243 A93-36555 COX, J. A.

Quantitative Helmet Mounted Display system image p 229 A93-30068 quality model COX, R. G.

Treatment of human-computer interface in a decision support system I DE93-0022811 p 237 N93-24502

COYLE, EDWARD F. Influence of graded dehydration on hyperthermia and

cardiovascular drift during exercise p 44 A93-14971 COYLE SHAWN Training for avionics evaluation

[AIAA PAPER 92-4068] p 24 A93-11254 COYNE, JOHN T

Cognitive function at high altitude p 386 A93-52505 CRABB, THOMAS M.

Overview of NASA's 1991 Life Support Systems Analysis p 290 A93-41310 [SAE PAPER 921118]

1991 NASA Life Support Systems Analysis workshop I NASA-CR-44661 p 310 N93-27100 1992 NASA Life Support Systems Analysis workshop [NASA-CR-4467] p 310 N93-27101 CRAIG, I.

Oculo-motor responses and virtual image displays p 319 N93-28862

CRAMPTON, GEORGE H.

8-OH-DPAT does not interfere with habituation to motion-induced emesis in cats p 271 A93-38451 Xylazine emesis, yohimbine and motion sickness susceptibility in the cat p 324 A93-42450 Buspirone blocks cisplatin-induced emesis in cats

p 324 A93-42668 Motion and space sickness [ISBN 0-8493-4703-3] p 402 A93-55929 Neurophysiology of motion sickness

p 399 A93-55932

CRANDALL, C. G. Aerobic fitness. I - Response of volume regulating hormones to head-down tilt p 167 A93-28721 CRANDALL, CRAIG G.

Hormonal responses during orthostasis following 4 hours p 379 A93-49221 of head-down tilt

Prediction of maximal oxygen uptake from submaximal exercise testing in aerobically fit and nonfit men p 385 A93-52304

CRANE, J. ALLEN

Compliant walker NASA-CASE-GSC-13348-21 p 53 N93-14708 CRAVEN R

Visual specification of robot motion

CRAWFORD, D. W. Wall shear stress estimates in coronary artery p 170 A93-28759

p 348 A93-42845

p 189 A93-27191

CRAWFORD ROBYN L Effects of display luminance on the recognition of color symbols on similar color backgrounds

CREA, THOMAS

A literature survey for virtual environments - Military flight simulator visual systems and simulator sickness

p 387 A93-49406 CRENSHAW, A.

Direct measurement of capillary blood pressure in the p 279 A93-40550 human lip CRENSHAW, ALBERT G.

Transcapillary fluid responses to lower body negative p 380 A93-49292 CRENSHAW, JOHN, SR.

Space biology initiative program definition review. Trade study 5: Modification of existing hardware (COTS) versus ew hardware build cost analysis p 207 N93-23069 Space biology initiative program definition review. Trade new hardware build cost analysis study 1: Automation costs versus crew utilization

p 208 N93-23070 Space biology initiative program definition review. Trade study 4: Design modularity and commonality

p 208 N93-23071 Space biology initiative program definition review. Trade

study 3: Hardware miniaturization versus cost p 208 N93-23080 Space biology initiative program definition review. Trade

study 6: Space Station Freedom/spacelab modules compatibility

Space biology initiative program definition review. Trade study 2: Prototype utilization in the development of space biology hardware

CRILL, PATRICK M.

Methane transport mechanisms and isotopic fractionation in emergent macrophytes of an Alaskan tundra lake p 38 A93-16544

CRISSEY, MONA J.

'Liveware' survey of human systems integration (HSI) p 349 A93-42847

CRISTION, JOHN A.

Automatic detection of seizures with applications

p 254 N93-25592 CRISWELL-HUDAK, B. S.

Immune response during space flight p 94 A93-20664

CRONCH, DANIEL F. Design of a reusable kinetic energy absorber for an astronaut safety tether to be used during extravehicular activities on the Space Station

INASA-CR-1920151 p 139 N93-17973 CROSS, KENNETH D. Training effectiveness assessment: Methodological

problems and issues p 342 N93-30684 CROW, S. A.

Relative resistance of biofilms and planktonic cells of

common molds and yeasts to antimicrobials [SAE PAPER 921212] p 273 p 273 A93-41388 CROWELL, JAMES A.

The perception of heading during eye movements p 99 A93-20692

CROWLEY, JOHN Effects of simulated high altitude exposure on long-latency event-related brain potentials

p 117 A93-24042 performance CROWLEY, JOHN S.

Visual illusions and other effects with night vision devices p 230 A93-30072 **CROZATIER, BERTRAND**

Hypoxia-induced downregulation of beta-adrenergic receptors in rat heart p 37 A93-14973 CRUMP, WILLIAM J.

A systems approach to water recovery testing for space life support - Initial biomedical results from the ECLSS Water Recovery Test and plans for testbed utilization ISAE PAPER 9212101 p 295 A93-41386

ECLSS medical support activities I NASA-CR-1844291 p 23 N93-12427 CUCHE, J. L.

Microgravity and orthostatic intolerance - Carotid hemodynamics and peripheral responses

p 278 A93-39716

CUCINOTTA, F. A.

Track structure model for damage to mammalian cell cultures during solar proton events p 75 A93-18073 Temporal analysis of the October 1989 proton flare using

computerized anatomical models p 216 A93-32785 Depth-dose equivalent relationship for cosmic rays at

p 391 A93-49564 various solar minima

Human exposure to galactic cosmic rays in space

p 410 A93-54887

CUCINOTTA, FRANCIS A.

Interplanetary crew exposure estimates for galactic p 87 A93-17975 cosmic rays Katz model prediction of Caenorhabditis elegans

mutagenesis on STS-42 INASA-TM-43831 p 50 N93-13023

Target fragmentation in radiobiology

[NASA-TM-4408] p 124 N93-18381

CUI. WEI

Protection of Chinese medicine and low frequency magnetic field against suspension induced bone loss in

CULBERT, CHRIS

The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network p 258 N93-25595 (BRAIN)

CULLINGFORD, HATICE

Crop growth and associated life support for a lunar p 67 N93-13994 farm

CUNNINGHAM, ROBERT K.

Parametric study of diffusion-enhancement networks for spatiotemporal grouping in real-time artificial vision p 58 N93-14580 LAD-A2560591

CUOMO, DONNA L.

Measures of user-system interface effectiveness: Assessment of structured judgment evaluation techniques for graphical, direct-manipulation style interfaces

p 63 N93-12576 IAD-A2544931

Measures of user-system interface effectiveness: An encoding scheme and indicators for assessing the usability of graphical, direct-manipulation style user interfaces IAD-A2606061 p 265 N93-25840

CURRY, DAVID

Handedness and motor programming effects of manual control and movement

[AD-A264022] p 340 N93-30027

CURTIS, ROBERT L.

Two phase fluid management for hydroponics

ISAE PAPER 9211631 p 294 A93-41345

CURTIS, STANLEY B.

Single particle effects, Biostack, and risk evaluation -Studies on the radiation risk from Galactic cosmic rays p 202 A93-32243

CUSHMAN, W. B.

Toward the ideal military aviation sunglass p 140 N93-18200 [AD-A258200]

CUSICK, ROBERT J.

Development of a regenerable metal oxide sheet matrix CO2 removal system ISAE PAPER 9212981 p 302 A93-41463

Portable life support system regenerative carbon dioxide and water vapor removal by metal oxide absorbents preprototype hardware development and testing [SAE PAPER 921299] p 303 AS p 303 A93-41464

CUTCHIS PROTAGORAS N

Automatic detection of seizures with applications p 254 N93-25592

CYMERMAN, ALLEN

Operation Everest II - Metabolic and hormonal responses to incremental exercise to exhaustion

p 115 A93-21685

Effects of simulated high altitude exposure on long-latency event-related brain potentials p 117 A93-24042

Operation Everest II - Gas tensions in expired air and arterial blood at extreme altitude p 117 A93-24043

Hypoxic ventilatory responsiveness in Tibetan compared with Han residents of 3,658 m p 280 A93-41120

CYNADER, M. S.

Spectral motion produces an auditory after-effect

p 405 A93-55579

CZEISLER, CHARLES A.

Research on sleep, circadian rhythms and aging p 94 A93-20658 Applications to manned spaceflight

CZEKALSKI, BLAISE E.

CZERWINSKI, B. S.

Finite element analysis of a composite artificial ankle p 174 N93-22189

Skin care in the space environment

p 170 A93-28756

D'AMELIO, F. PERSONAL AUTHOR INDEX

D

D'AMELIO, F.

Quantitative autoradiographic analysis of muscarinic cholinergic and GABAA (benzodiazepine) receptors in the forebrain of rats flown on the Soviet Biosatellite COSMOS p 156 A93-28743 2044

D'AMELIO, RAFFAELE

D'ANDREA, JOHN A.

Influence of stress on lymphocyte subset distribution -A flow cytometric study in young student pilots

p 118 A93-25203

Effects of 'ser glare on visual search performance

p 180 A93-28158

Environmental control of the Mini Pressurized Logistic Module

|SAE PAPER 921281| p 302 A93-41449

DAANEN, H. A. M. Comparison of four noninvasive rewarming methods for mild hypothermia p 88 A93-18037

DAGA, ANDREW W. Evolving concepts of lunar architecture: The potential of subselene development p 107 N93-17447

DAGA, MERYL A.

Evolving concepts of lunar architecture: The potential of subselene development p 107 N93-17447 DAGNINO, ALDO

Knowledge-based task planning for the Special Purpose Dextrous Manipulator p 191 A93-29110 DAHL, SUSAN

CREWCUT - A tool for modeling the effects of high vorkload on human performance p 178 A93-27180 DAHLSTEDT, SVEN

Up/down in (im)possible flight attitude indicators - Some effects of colour, shape and pattern p 185 A93-27128 DAHMS, T. E.

Carbon monoxide exposure of subjects with documented ardiac arrhythmias

LPR93-1799431 p 337 N93-30890

DALEE, ROBERT C.

Development of membrane gas removal technology for microgravity liquid flow systems

[SAE PAPER 921162] p 294 A93-41344 DALEY, P. C.

Intelligent robotics capabilities of the teleautonomy p 184 A93-27035

DALL-BAUMAN, L.

Zero-G life support for Space Station Freedom

p 233 N93-22640

DALL-BAUMAN, LIESE -L-BAUMAN, LIESE
Conceptual design of ECLSS microgravity test beds
SAE PAPER 921164 | p 294 A93-41346 [SAE PAPER 921164]

DALL-BAUMAN, LIESE A. Modeling of membrane processes for air revitalization

and water recovery

(SAE PAPER 921352) p 306 A93-41511

DALLMAN, M. F. Drug effects on orthostatic intolerance induced by

bedrest p 86 A93-17544 DALTON, BONNIE P.

The General Purpose Work Station, a spacious microgravity workbench SAE PAPÉR 921394] p 309 A93-41552

DAMELIO, R. Dramatic reduction of meningococcal meningitis among

military recruits in Italy after introduction of specific vaccination p 18 N93-11303 The screening of inhalant allergic diseases in the

selection of candidates for aircraft piloting p 21 N93-11312

DAMELIO, RAFFAELE

Clinical and immunological response to vaccination with parenteral or oral vaccines in two groups of 30 recruits p 19 N93-11305

DAMIAN, K.

The training of the new astronaut candidates at EAC p 129 A93-23693

The European astronauts training programme p 226 N93-24346

DANDOLOV. I.

Moistening of the substrate in microgravity

p 135 A93-21906 Dynamics of the controlled environment conditions in p 152 A93-27460 'SVET' greenhouse in flight

DANDREA, J. A.

Behavioral effects of high peak power microwave pulses: Head exposure at 1.3 GHz

[AD-A258136] p 120 N93-17985

DANGELO, L. The USO-concept applied to a biological model

p 210 N93-24379 experiment Training concept for crew, end user, and ground centre

personnel in the Columbus utilisation programme p 226 N93-24382 DANIEL, ROY M.

p 74 A93-18003 Modern life at high temperatures p 74 A93-18010 Future research DANIELL, ROBERT

The Space Station Remote Manipulator System p 138 A93-25487

DANNENBERG, KONRAD K.

A study of the effects of micro-gravity on seed germination p 40 N93-13167 DAROS. D. A.

Stimulus presentation formats and measurement techniques for the quantification of target detection performance

AD-A2589331 p 133 N93-19449

DAS. H.

Operator performance with alternative manual control p 390 A93-49397 modes in teleoperation Integrated tools for teleoperated satellite repair p 409 A93-54845

Man-machine cooperation in advanced teleoperation p 366 N93-32106

DASHEVSKII, B. S.

Peroxidative oxidation of lipids and chromosome aberrations in mice after repeated exposures to a helium-oxygen respiration mixture under hyperbaric p 243 A93-35672

DASKALOPOULOS, C.

Correlation of life-style and dietary concomitants of p 369 N93-32256 Greek pilots with serum analytes DASKALOPOULOS, CH.

Correlation of serum alpha sub 1 antitrypsin with cigarette smoking and pulmonary function status in Greek p 22 N93-11318 pilots, for a ten year period

DAUNTON, N. G. Quantitative autoradiographic analysis of muscarinic cholinergic and GABAA (benzodiazepine) receptors in the forebrain of rats flown on the Soviet Biosatellite COSMOS p 156 A93-28743

DAUNTON, NANCY G.

Antagonistic otolith-visual units in cat vestibular nuclei p 199 A93-30511

Animal models in motion sickness research p 399 A93-55936

DAVENPORT, MARK

The effect of low blood alcohol levels on pilot performance in a series of simulated approach and landing p 179 A93-27453

DAVENPORT, RONALD J.

Integrated oxygen recovery system INASA-CR-1923431 p 234 N93-22663

Integrated oxygen recovery system [NASA-CR-192982] p 267 N93-26088

DAVIDSON, LAARNI

The development of an atmosphere composition monitor for the Environmental Control and Life Support System p 292 A93-41333 SAE PAPER 9211491 DAVIDSON, SHAYLA

The locator system for wandering individuals

INASA-TM-1047541 p 31 N93-11649

DAVIDSON, WILLIAM L.

Space biology initiative program definition review. Trade study 5: Modification of existing hardware (COTS) versus new hardware build cost analysis p 207 N93-23069 Space biology initiative program definition review. Trade study 4: Design modularity and commonality

p 208 N93-23071 Space biology initiative program definition review. Trade

study 3: Hardware miniaturization versus cost p 208 N93-23080

Space biology initiative program definition review. Trade study 6: Space Station Freedom/spacelab modules compatibility p 209 N93-23081

1EEI-89-2361 DAVIES, D. R.

p 287 A93-40771 Cognitive predictors of vigilance DAVIS, BRIAN L.

Simulating reduced gravity - A review of biomechanical issues pertaining to human locomotion

p 289 A93-41175

Human performance and physiological function during a 24-hr exposure to 1 percent bromotrifluoromethane p 277 A93-39704 Comparison of treatment strategies for space motion p 386 A93-52402

sickness DAVIS, JEFFREY R.

Treatment efficacy of intramuscular promethazine for p 212 A93-30283 Space Motion Sickness DAVIS, LINDA J.

Evaluation and estimation of handling qualities via statistical modeling of pilot response data p 69 N93-14548 LAD-A2553241

DAVIS, THOMAS P.

Human stress - Measurement and consequences p 49 A93-17440 DAVY, D. T.

Optimal design of composite hip implants using NASA p 174 N93-22188 technology Shape optimization of tibial prosthesis components [NASA-CR-191123] p 246 N93-27085

DAVYDOV, B. I.

Pharmacological defense of the brain during radiation p 240 A93-35217 damage - Some arguments DAVYDOV, G. A.

Altitude stress and cosmonaut training

p 262 A93-35235

DAVYDOVA, N. A.

Reaction characteristics of several neuroregulating systems of cosmonauts after a 366-day-long space flight p 45 A93-15167

DAWN, FREDERIC S.

p 106 N93-17088 INASA-CASE-MSC-21842-11

DAWSON, MARY R.

Revision of the Wind River faunas, early Eocene of central Wyoming. IX - The oldest known hystricomorphous rodent (Mammalia: Rodentia) p 328 A93-44903

DE CALUWE, G. L. J.

Studies towards the crystallization of the rod visual pigment rhodopsin p 1 A93-11150

Studies towards the crystallization of the rod visual b 1 A93-11150 pigment rhodopsin

DE GROOT, R. P.

Inhibition of EGF-induced signal transduction by microgravity is independent of EGF receptor redistribution in the plasma membrane of human A431 cells

p 272 A93-39715

DE GROOT, ROLF P.

Altered gravity conditions affect early EGF-induced signal transduction in human epidermal A431 cells

p 376 A93-49214

Inhibition of EGF-induced signal transduction by microgravity is independent of EGF receptor redistribution in the plasma membrane of human A431 cells

p 272 A93-39715

DE LAAT, SIEGERIED W. Altered gravity conditions affect early EGF-induced

signal transduction in human epidermal A431 cells p 376 A93-49214

p 231 A93-31944

p 21 N93-11312

p 68 N93-14003

DE PEUTER, W.

EMATS, a robot-based Equipment Manipulation and Transportation System for the Columbus Free Flying Laboratory p 231 A93-31522

DEADWYLER, SAM A.

Multiple neuron recording in the hippocampus of freely movino animals p 330 N93-30594

I AD-A264807 I

DEAKIN, R. S. Military aircrew head support system

DEAN, W. C. Zero gravity phase separator technologies - Past, present and future ISAE PAPER 9211601 p 293 A93-41342

DEANGELIS, C.

The screening of inhalant allergic diseases in the selection of candidates for aircraft piloting

Cardiovascular risk factors in an Italian Air Force p 362 N93-32252 population: Preliminary report

DEANGELIS, CLAUDIO

Idiopathic Reactive Hypoglycemia in a population of healthy trainees of an Italian Air Force military school p 368 N93-32248

DEARBORN, A.

Vascular uptake of rehydration fluids in hypohydrated men at rest and exercise p 255 N93-26133

INASA-TM-103942] DEATON, JOHN E.

Complex task performance as a basis for developing cognitive engineering guidelines in adaptive automation

p 186 A93-27148 Reclined seating in advanced crewstations - Human

performance considerations p 186 A93-27151 Human performance in complex task environments: A basis for the application of adaptive automation

IAD-A2550671 p 35 N93-12486

DEAVERS, MICHAEL B.

An automated method for determining mass properties | AD-A259924 | p 236 N93-24441 DEBARRO, MARC J.

Conceptual design of a lunar base thermal control system

DEBRINCAT, GARY A. Effects of gravity on gastric emptying, intestinal transit and drug absorption p 85 A93-17543

B-14

OPTOVERT: An AUSTROMIR 91 experiment -Orientational effects from optokinetic stimulation

p 159 A93-26571

DECOMBAZ, JAQUES

Protein absorption and energy digestibility at high p 115 A93-21683

DEECKE, L.

Optovert: An AustroMir-1991 experiment. Orientational effects from optokinetic stimulation p 226 N93-24366 DEGANI, ASAF

Cockpit checklists - Concepts, design, and use p 389 A93-52506

DEGER, SAIT

Assessment of morale in Turkish Air Force pilots with two clinical psychological tests DEGIOANNI, J. J.

Human performance and physiological function during a 24-hr exposure to 1 percent bromotrifluoromethane p 277 A93-39704

DEIMLER, JAMES D.

Age 60 Project: Consolidated database experiments [HS-TR-8025-3C(R2)] p 314 N93-27851 p 314 N93-27851

DEJOHN, C. A.

Effects of dextromethamphetamine on subjective

IAD-A2582521 p 119 N93-17822 An analysis of a sustained flight operation training

mission in Navy attack aircraft [AD-A258199] p 131 N93-18205

A computer-based visual analog scale [AD-A258152] p 122 N93-18280 Subjective fatigue in A-6, F-14, and F/A-18 aircrews during operations Desert Shield and Storm

[AD-A259243] p 171 N93-20580 Simulated sustained flight operations and performance. Part 1: Effects of fatigue

IAD-A2610121

p 266 N93-25859

DEKLUNDER, GHISLAINE

Intracardiac hemodynamics in man during short periods f head-down and head-up tilt p 117 A93-24044 of head-down and head-up tilt DELACROIX, MARION

Mechanisms of improved arterial oxygenation after peripheral chemoreceptor stimulation during hypoxic exercise p 331 A93-42188

DELANY, JAMES P.

Nutrition and hydration status of aircrew members consuming the food packet, survival, general purpose, improved during a simulated survival scenario

DELENIAN, N. V.

Lipid peroxidation and the antioxidant defense system in rats after a 13-day flight on the Cosmos-1887 p 239 A93-35210 biosatellite

DELONG, EDWARD F.

Multiple evolutionary origins of magnetotaxis bacteria p 153 A93-27799

DELRIE, DARCELLE M.

Effects of terfenadine and diphenhydramine on brain activity and performance in a UH-60 flight simulator [AD-A258012] p 119 N93-17817

DELTRECCO, M.

In vivo and in vitro diagnosis of allergic respiratory disease during screening procedures in the Italian Navy: Comparative evaluation of a recent quantitative automatized enzyme immunoassay method to dose

specific IgE DEMCHENKO, I. T.

Infraslow bioelectric activity of the monkey's brain in the development of the high-pressure neural syndrome ρ 75 Á93-18286

p 21 N93-11314

Local blood supply of the brain of guinea pigs developing the high-pressure neural syndrome p 76 A93-18293 DEMCHENKO, T. A.

Correlation between the lymph dynamics and venous pressure during short-term antiorthostatic effects

p 325 A93-43070 DEMEO, MARTHA E.

Active vibration damping of the Space Shuttle remote p 231 A93-31993 manipulator system

Human-in-the-loop evaluation of RMS Active Damping Augmentation IAIAA PAPER 93-38751 p 393 A93-51460

DEMING, JODY W.

Deep-sea smokers - Windows to a subsurface p 397 A93-53284 Kinetics of peptide hydrolysis and amino acid decomposition at high temperature p 411 A93-53289 DEMPSEY, JEROME A.

Determinants of poststimulus potentiation in humans during NREM sleep p 78 A93-20034

DEMPSTER, WILLIAM F. Biosphere 2 - Overview of system performance during the first nine months

|SAE PAPER 921129| p 291 A93-41317 DENARO, ANGELO

Environmental control of the Mini Pressurized Logistic ISAE PAPER 9212811 p 302 A93-41449

DENCKER, WALLY

The development of an atmosphere composition monitor for the Environmental Control and Life Support System |SAE PAPER 921149| p 292 A93-41333 DENG, M. H.

Melatonin concentrations in the sudden infant death syndrome p 203 A93-33030 DENG, MEI H.

Melatonin and its precursors in Y79 human retinoblastoma cells - Effect of sodium butyrate

DENG. MEI-HUA

Melatonin in human preovulatory follicular fluid p 215 A93-32474

DENNISTON, CHARLES

Finite element analysis of a composite artificial ankle p 174 N93-22189

DEOLIVEIRASAMPA, MARIA HELENA

Utilization of high energy electron beam in the treatment of drinking and waste water I DE92-6423351 p 372 N93-32406

DERDERIAN, S. S.

Hemodynamic effects of altitude exposure and oxygen administration in chronic obstructive pulmonary disease p 383 A93-49571

DEREUS. A. J.

High-resolution contrast control on a video display: Method and calibration

| AD-A256552 | p 60 N93-15400

DEROCHE, J.

Lipodystrophies in the French military flight crew p 362 N93-32249

DEROSHIA, C. W.

Cerebral blood flow velocity in humans exposed to 24 h of head-down tilt p 381 A93-49295

DEROSHIA, CHARLES W.

Performance and mood-state parameters during 30-day 6 deg head-down bed rest with exercise training

p 281 A93-41169

DES MARAIS, DAVID J.

Preservation of biological information in thermal spring deposits - Developing a strategy for the search for fossi p 197 A93-28377 life on Mars

DESGRES, J.

Clinical and diagnostic requirements - Biochemical exploration of amino acid metabolism, tRNA turnover and p 49 A93-17442 lymphocyte activation

DESHEVAIA, E. A.

Microflora of cabins of manned space objects and the problem of biological damage to the structural materia used in them p 262 A93-35237

DESIDERIO, D. M.

Molecular mechanisms of stress p 49 A93-17443 DESMOND, JEMETT L.

Acquisition of physiological data during G-induced Loss of Consciousness (G-LOC) IAD-A2644921 p 335 N93-30400

DEUTSCH-MCLEISH, MARY

Fuzzy neural network methodology applied to medical diagnosis p 334 N93-29546

DEUTSCHMAN, ROBERT A., III
Pulmonary diffusing capacity, capillary blood volume, and cardiac output during sustained microgravity

DEVINCENZI, DONALD L.

p 386 A93-52617

Exobiology science objectives at a lunar base

p 71 A93-17435

DEVINE, JAMES

Effects of simulated high altitude exposure on long-latency event-related brain potentials and performance p 117 A93-24042

DEVOS, G.

A new concept for helmet mounted vision p 145 N93-19767

DEWBERRY, BRANDON S.

The ECLSS advanced automation project evolution and technology assessment p 312 N93-27723 DEWEL ZHAO

Postoperative hyperbaric oxygen treatment of peripheral nerve damage p 52 N93-14084

1AD-A2558421 DHADWAL, HARBANS S.

DHOPLE, ARVIND M.

A fiber optic probe for the detection of cataracts

p 254 N93-25593

Rapid susceptibility testing of mycobacterium avium complex and mycobacterium tuberculosis isolated from AIDS patients

[NASA-CR-192382] p 172 N93-20736 DI GIULIO, MASSIMO

The evolution of aminoacyl-tRNA synthetases, the biosynthetic pathways of amino acids and the genetic p 73 A93-17825

DI PIPPO, SIMONETTA

The strategic role of automation and robotics for Columbus utilization p 181 A93-26567

DIAMANDIS, PETER H.

Orthostatic function during a stand test before and after p 84 A93-17530 head-up or head-down bedrest

DIAMANT, BRYCE L.

Technologies for ECLSS evolution

p 311 N93-27720

DIAMOND, STEVE D. Automated system for analyzing the activity of individual neurons p 173 N93-22163

DIAZ. MANUEL F.

Task-analytic evaluations of Space Station Freedom workstations p 187 A93-27157

DICKENSON, REUBEN D.

A feasibility study of hand kinematics for EVA analysis using magnetic resonance imaging

I SAE PAPER 9212531 p 298 A93-41423

DICKENSON, RUEBEN D.

EVA Glove Research Team

[NASA-CR-193014] p 313 N93-27847 A feasibility study of hand kinematics for EVA analysis

using magnetic resonance imaging p 313 N93-27848 DICKINSON, TERRY L. Determinants of performance rating accuracy: A field

study [AD-A264726] p 342 N93-30575

DICKSON, KATHERINE J.

Space Publications of the Physiology Countermeasures Program, Neuroscience Discipline: 1980-1990

p 55 N93-15583 [NASA-CR-4476] Publications of the Space Physiology and Countermeasures Program, Cardiopulmonary Discipline: 1980-1990

I NASA-CR-44751 p 123 N93-18376

DIDELOT, F.

Immunization of personnel traveling to a destination in p 19 N93-11304 tropical countries: French position

DIDIER, M. Suction-cup shoes for astronauts - A new method of p 62 A93-17072

Development of a 500 hPa shoulder joint for the European EVA Space Suit System [SAE PAPER 921257] p 299 A93-41427

DIESPEROVA, E. EH. Investigation of individual and typological features of an operator's nervous system under different work regimes

Effects of hypoxemia at sea level and high altitude on sodium excretion and hormonal levels p 8 A93-10332 DIFFEE, GARY M.

Activity-induced regulation of myosin isoform distribution - Comparison of two contractile activity programs

p 326 A93-44183 Interaction of various mechanical activity models in regulation of myosin heavy chain isoform expression

DIKSHIT, PIYUSH

Architecture of autonomous systems

[NASA-CR-192974] p 266 N93-26047 DILLARD, T. A.

Hemodynamic effects of altitude exposure and oxygen administration in chronic obstructive pulmonary disease

DILLON, THOMAS J.

Goggles emergency release apparatus

p 351 N93-29607 [AD-D015685]

DIMAROV, R. M.

Diurnal rhythmicity of human orthostatic stability p 250 A93-35253 DINAUER, W. R.

A matrix-based porous tube water and nutrient delivery system

[SAE PAPER 921390]

p 309 A93-41548 DISARIO, ROBERT

DITTMAR, ANDRE

Instrument-approach-plate design considerations for displaying radio frequencies p 289 A93-39574 Immobilized cell bioreactors for water reclamation -

Process stability and effect of reactor design SAE PAPER 9212771

The influence of individual sensivity to stress on the

p 301 A93-41446

p 327 A93-44184

p 383 A93-49571

behavior (attitude and performance) of avoidance of an accident p 134 N93-19705 DIVADEENAM M

A computer model to determine the primary contributors to relative radiation dose received by astronauts

p 43 A93-13935

Influence of gravitoinertial force level on vestibular and visual velocity storage in yaw and pitch

p 165 A93-28701 Gravitoinertial force level affects the appreciation of limb position during muscle vibration p 169 A93-28744 DIZIO, PAUL

Spatial orientation, adaptation, and motion sickness in real and virtual environments p 382 A93-49403 DLUSSKAIA, I. G.

Some biochemical and functional characteristics of body state during multihour operator activity under extreme conditions p 161 A93-27686

DMITRIEVA, L. E.

Motor activity of animals under elevated pressure p 75 A93-18290

DOBKIN, RICHARD

Enhanced performance using physiological feedback [AD-A258006] p 130 N93-17816 p 130 N93-17816 DOBRYLKO, A. K.

A device for the prolonged restraint of primates in closed-space conditions p 77 A93-18302 DODGE, ROBIN E.

Operational medicine on the lunar base

p 48 A93-17430

DOERR, D. F.

Biomedical engineering - A means to add new dimension to medicine and research p 190 A93-28717 Enhanced carotid-cardiac baroreflex response and elimination of orthostatic hypotension 24 hours after acute exercise in paraplegics p 216 A93-32781 DOERR, DONALD F.

Effects of acute exercise on attenuated vagal baroreflex p 48 A93-16160

function during bed rest DOERS, JESSE

Metabolic factors influencing myocardial recovery from acidosis (CiC3)

AD-A252376) p 14 N93-10796 DOI. KUNIO

Digital mammography, cancer screening: Factors important for image compression p 221 N93-24551 DOKTYCZ, M. J.

Development of resonance ionization spectroscopy for genome mapping and DNA sequencing using stable isotopes as DNA labels

[DE93-007815] p 246 N93-26587 DOKUNIN, IVAN V.

Functions simulation model of integrated regenerable

life support system [SAE PAPER 921201] p 295 A93-41377

DOLAN, M. J.

Early markers of HIV infection and subclinical disease progression p 17 N93-11296

Performance differences in psychomotor and dichotic listening tests among landing craft air cushion vehicle operator trainees p 177 A93-27174 The unique contribution of selected personality tests to

the prediction of success in naval pilot training [AD-A258144] p 132 N93-18291

DOLGIN, DANIEL L.

The efficacy of biographical inventory data in predicting early attrition in naval aviation officer candidate training LAD-A2580251 p 131 N93-17919

DOLHERT, NANCY

The time-course of alcohol impairment of general aviation pilot performance in a Frasca 141 simulator p 384 A93-52299

DOLL, SUSAN TRIALSS - Tool for Rapid and Intelligent Advanced Life

Support System Selection and Sizing p 291 A93-41315 [SAE PAPER 921123]

DOMBROWSKI, JUDY

Rat cardiovascular responses to whole body suspension - Head-down and non-head-down tilt p 37 A93-14974 DONALDSON, STEWART I.

Crew performance in Spacelab p 176 A93-27169 DONINA. 7H A

Gas composition in the blood of rabbits exposed to a high-pressure atmosphere under spontaneous and forced ventilation p 77 A93-18301

DONNER, KIMBERLY A. Display format and highlight validity effects on search

performance using complex visual displays p 187 A93-27160 DOOLEY, D. P.

Coccidioidomycosis - A persistent threat to deployed populations p 380 A93-49228

Simulation and flight test evaluation of head-up-display guidance for Harrier approach transitions [AIAA PAPER 92-4233] p 28 A93-13331 DOSHAY, DAVID

Computer-assisted three-dimensional reconstruction and simulations of vestibular macular neural p 104 A93-20700 connectivities

DOUGHERTY, D. R.

An on-line water quality monitor for Space Station Freedom p 364 A93-46801

DOUGHERTY, DALE R.

Continuous monitoring of effluent iodine levels of Space Station water using solid state technology p 299 A93-41435 [SAE PAPER 921265]

DOWELL, GENE L.

Rationale for a hyperbaric treatment capability at a Lunar Station p 213 A93-30286

DREHNER, D. M.

Coccidioidomycosis - A persistent threat to deployed populations p 380 A93-49228

DRESCHEL, T. W.

Development of physical and mathematical models for the Porous Ceramic Tube Plant Nutrification System (PCTPNS)

[NASA-TM-107551] p 4 N93-10085

DREW, ANNETTE C.

Effectiveness of NASA 1032 and 1035 and Air Force 1030 and 1034 units in protection against cold water hypothermia

IAD-A2551201 p 34 N93-12291

DREW, MALCOLM C.

Growing wheat to maturity in reduced gas pressures [NASA-CR-193245] p 277 N93-29216

DRINKWATER, DONALD

Cardiovascular responses to lower body negative pressure in trained and untrained older men

p 115 A93-21686

DRISS-ECOLE, D.

Gravity and root morphogenesis p 210 N93-24403 DROMA, TARSHI

Hypoxic ventilatory responsiveness in Tibetan compared p 280 A93-41120 with Han residents of 3,658 m Minimal hypoxic pulmonary hypertension in normal Tibetans at 3,658 m p 280 A93-41121

DROPPERT, PIETER M.

A review of muscle atrophy in microgravity and during p 213 A93-30771 prolonged bed rest

DROZDENKO, RONALD

The challenge of biodetection for screening persons p 159 N93-21931 carrying explosives

DRUMMER, C.

Effects of head-down tilt and saline loading on body weight, fluid, and electrolyte homeostasis in man p 163 A93-28685

Diuresis and natriuresis following isotonic saline infusion in healthy young volunteers before, during, and after HDT p 163 A93-28688

DRUMMER, CHRISTIAN

Effect of water immersion on renal natriuretic peptide (urodilatin) excretion in humans p 381 A93-49293 DRURY, COLIN G.

Errors in aviation maintenance - Taxonomy and p 175 A93-27135 control

DRUSANO, GEORGE L.

Optimal sampling theory and population modelling -Application to determination of the influence of the microgravity environment on drug distribution and p 85 A93-17542 elimination

DRYSDALE, ALAN

Controlled Ecological Life Support System (CELSS) todeling p 137 A93-25308 modelina OCAM - A CELSS modeling tool: Description and results

[SAE PAPER 921241] p 298 A93-41413

DUBEY, R. V.

Collision avoidance of a multiple degree of redundance manipulator operating through a window p 136 A93-23846

DUBOSE, DAVID A.

Seasonal effects on human physiological adaptation factors, thermotolerance and plasma fibronectin

Microgravity and orthostatic intolerance - Carotid hemodynamics and peripheral responses p 278 A93-39716

p 47 A93-16157

DUDEK. H.-L.

Monitoring of pilot actions as part of a knowledge-based p 59 N93-15184 system for pilot assistance

DUDFIELD, HELEN J.

Colour head-up displays - Help or hindrance? p 187 A93-27154

DUDLEY, G. A.

Carotid-cardiac baroreflex response and LBNP tolerance p 164 A93-28696 following resistance training Skeletal muscle responses to unloading with special p 166 A93-28718 reference to man

DUDLEY, GARY A.

Magnetic resonance imaging and electromyography as indexes of muscle function p 44 A93-14975 Mapping of electrical muscle stimulation using MRI p 279 A93-40549

DUDLEY, ROSS A.

KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation p 30 N93-10713 IAD-A2539311

DUFFY, JEANNE F.

Research on sleep, circadian rhythms and aging Applications to manned spaceflight p 94 A93-20658 DULCHAVSKY, S. A.

Analysis of injuries following the crash of Avianca Flight p 382 A93-49562

DUNCAN, J.

The central executive component of working memory IAD-A2587241 p 135 N93-20326

DUNHAM, ANDREW Generation of iodine disinfection by-products (IDP's) in

a water recycle system (SAE PAPER 921362) p 307 A93-41521

DUNLAP, WILLIAM P.

An individual differences approach to fitness-for-duty p 178 A93-27178 assessment

Prediction of motion sickness susceptibility p 403 A93-55940

DUNN, ELIZABETH C.

The effects of iconic presentation on individuals p 133 N93-18949 IAD-A2587851

DUNN, KEVIN H.

Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere revitalization (AR) predevelopment operational system test (POST) for the Space Station Freedom (SSF) |SAE PAPER 921186| p 294 A93-41365

DUNNE, M. J.

Flight physiology - Clinical considerations

p 164 A93-28690 DUNPHY, P.

Cerebral autoregulation in microgravity

p 173 N93-21112

DUNPHY, PAUL T.

Cerebral blood flow velocities by transcranial Doppler during parabolic flight p 84 A93-17533

DUNSKY, BETSY Techniques for optimal crop selection in a controlled

ecological life support system p 33 N93-12018 INASA-TM-103950 I

DUPUI, PHILIPPE Balance and gait analysis after 30 days -6 deg bed rest

 Influence of lower-body negative-pressure sessions DUQUE, P.

European astronaut candidates in training in the CIS p 256 A93-34593

DURAN F. A. Treatment of human-computer interface in a decision

support system IDE93-0022811 p 237 N93-24502

Effects of running the Bostom Marathon on plasma concentrations of large neutral amino acids

p 160 A93-27048 DURING, MATTHEW J.

Dopamine release in rat striatum - Physiological coupling p 152 A93-27050 to tyrosine supply Effects of systemic L-tyrosine on dopamine release from rat corpus striatum and nucleus accumbens

p 201 A93-32118 Tyrosine - Effects on catecholamine release

p 204 A93-33038

DURLACH, NATHANIEL

Super auditory localization for improved human-machine interfaces IAD-A2546991 p 34 N93-12229

DURMOWICZ, ANTHONY G.

Functional and structural adaptation of the yak pulmonary circulation to residence at high altitude p 326 A93-44181

DURNFORD, S. J.

Disorientation and flight safety: A survey of UK Army p 133 N93-19680

DURNOVA, G. N.Healing of fractured bone in rats during readaptation following 14-day suspension p 241 A93-35260 DURRANI, MOHAMMED

Design of a resistive exercise device for use on the Space Shuttle

[NASA-CR-192079] p 108 N93-17805

DUVOISIN, MARC R. Magnetic resonance imaging and electromyography as indexes of muscle function p 44 A93-14975 DUWE, H.

The USO-concept applied to a biological model experiment p 210 N93-24379 PERSONAL AUTHOR INDEX

ERCOLINE, WILLIAM R.

Training concept for crew, end user, and ground centre EDGERTON, V. R. FLUOTT ANN R. personnel in the Columbus utilisation programme Absence of a growth hormone effect on rat soleus Pulmonary diffusing capacity, capillary blood volume, p 226 N93-24382 atrophy during a 4-day spaceflight p 272 A93-40548 and cardiac output during sustained microgravity p 386 A93-52617 DVORETSKII ANATOLILI EDHAG O.K. Cardiac pacing and aviation p 215 A93-32778 Ion transport across membranes under exposure of the **ELLIOTT, SIMON** organism to ionizing radiation EDWARDS, ELIZABETH A.

Anaerobic microbial transformation of aromatic Looks can kill p 231 A93-31626 HSBN 5-12-001601-41 p 243 A93-35679 FLLIS, STEPHEN R. hydrocarbons and mixtures of aromatic hydrocarbons and Visual display aid for orbital maneuvering - Design DVORNIKOV M V halogenated solvents considerations p 135 A93-23518 Dynamics of electroencephalographic indices during IAD-A2556961 p 42 N93-14557 Visual display aid for orbital maneuvering - Experimental acute hypoxia p 402 A93-55333 EDWARDS, SHARON L. **DVORSKY, JAMES E.** evafliation p 136 A93-23519 Modeling the dynamics of mental workload and human Pictorial communication in virtual and Evaluation of lightweight and low profile communication performance in complex systems devices for Respiratory Protective system 21 (RESPO [AD-A258553] p 135 N93-19956 LISBN 0-74840-008-71 n 182 A93-26896 EFIMOV, V. I. Exocentric judgements in real environments and LAD-A2533931 p 30 N93-10217 Methodology for clinical testing of antiradiation means p 189 A93-27190 stereoscopic displays DYE, RAYMOND H. intended for manned space flight conditions Auditory processing of complex sounds across The design of virtual spaces and virtual environments p 249 A93-35236 p 232 A93-33445 frequency channels EGELAND, G. M. [AD-A253612] Operator-assisted planning and execution of proximity n 13 N93-10650 Fluorocarbon 113 exposure and cardiac dysrhythmias operations subject to operational constraints DYRE, BRIAN P among aerospace workers p 168 A93-28739 p 194 N93-21436 The impact of visual noise on spatial orientation EGELSEER, EVA ELLSWORTH, JON p 257 A93-36229 Comparison of membrane ATPases from extreme DZHENZHERA, L. IU. Field test of a computer-driven tool to measure halophiles isolated from ancient salt deposits psychological characteristics of aircrew Some biochemical and functional characteristics of body p 243 A93-36557 I AD-A264484 J p 341 N93-30425 state during multihour operator activity under extreme EGGEMEIER, F. T. p 161 A93-27686 ELTON, KAY F. A comparison of two scoring procedures with the NASA Orthostatic function during a stand test before and after task load index in a simulated flight task p 84 A93-17530 head-up or head-down bedrest EMEL'IANOV, A. IU. E p 349 A93-42849 Recommendations for mental workload measurement Preclinical cardiovascular and neurological EASTERWOOD, G. W. in a test and evaluation environment occupation-related pathological symptoms in helicopter p 394 A93-52504 Lunar base CELSS: A bioregenerative approach p 91 A93-18416 pilots Automatic information processing and high performance EMERSON, TERRY p 67 N93-13993 EBENHOLTZ, SHELDON M. The human-electronic crew: Is the team maturing? The 2nd Joint GAF/RAF/USAF Workshop on AD-A2584731 p 132 N93-18273 Motion sickness and oculomotor systems in virtual EGGLESTON, ROBERT G. environments p 381 A93-49400 Human-Electronic Crew Teamwork EBERHARDT, RALPH Cognitive interface considerations for intelligent p 69 N93-14520 IAD-A2561921 NASA Specialized Center for Research and Training p 319 N93-28865 EMMERSON, PAUL EGOROV. A. D. (NSCORT) in space environmental health Vision modelling applications for display optimisation SAE PAPER 9213581 p 307 A93-41517 Main medical results of extended flights on Space p 29 A93-13414 EBERHARDT, RALPH N. Station Mir in 1986-1990 p 386 A93-52401 EGOZI, ARI The central executive component of working memory [AD-A258724] p 135 N93-20326 Space habitat environmental health - A systems issue p 347 A93-42151 ECK, JOHN D. EHNTHOLT, DANIEL J. ENDECOTT, BOYD R. The development and testing of a volatile organics Protective helmet assembly Variations of time-to-incapacitation [NASA-CASE-MSC-21842-1] concentrator for use in monitoring Space Station water carboxyhemoglobin values in rats exposed to two carbon p 106 N93-17088 quality ECKARDT, K. U. monoxide concentrations ISAE PAPER 921266 p 300 A93-41436 Effects of chronic hypoxia and exercise on plasma p 274 N93-27152 [DOT/FAA/AM-93/7] EHRENREICH, ARMIN erythropoietin in high-altitude residents Variations in time-to-incapacitation and blood cynanide p 331 A93-42191 Ferrous iron oxidation by anoxygenic phototrophic values for rats exposed to two hydrogen cyanide gas ECKBERG, D. L. p 271 A93-39280 concentrations Influence of ten-day head-down bedrest on human EICHSTADT, FRANK [DOT/FAA/AM-93/8] p 283 N93-27158 Crew Health Care Systems installations for Space ENDICOTT, J. carotid baroreceptor-cardiac reflex function Station Freedom Results of a structured psychiatric interview to evaluate p 161 A93-28678 p 298 A93-41420 ECKBERG, DWAIN L. ISAE PAPER 9212491 NASA astronaut candidates p 223 A93-32780 EICHSTADT, FRANK T. Human autonomic responses to actual and simulated ENDSLEY, MICA R. Glovebox design for Space Station Freedom Crew weightlessness Human capabilities and limitations p 85 A93-17540 Health Care System p 319 N93-28863 [SAE PAPER 921139] p 292 A93-41326 The design of mechanically compatible fasteners for numan mandible reconstruction p 253 N93-25569 ENGEL, MICHAEL H. EIDSON, ARTHUR F. Kinetics of peptide hydrolysis and amino p 253 N93-25569 ECKHARDT, BRADLEY D. Beryllium toxicity - An update p 104 A93-20779 decomposition at high temperature p 411 A93-53289 Regenerative Life Support Systems Test Bed erformance - Lettuce crop characterization EILERSEN, N. FNGFLKF, K. A. Training concept for crew, end user, and ground centre Enhanced carotid-cardiac baroreflex response and SAF PAPER 9213911 p 309 A93-41549 personnel in the Columbus utilisation programme elimination of orthostatic hypotension 24 hours after acute EDDINGTON, DONALD K. p 226 N93-24382 p 216 A93-32781 exercise in paraplegics Programmable interactive system for cochlear implant EISENHART, F. J. Expertise, text coherence, and constraint satisfaction: electrode stimulation Sperm motility under conditions of weightlessness Effects on harmony and settling rate IAD-A2625581 p 333 N93-29421 p 156 A93-28730 EDEEN, MARYBETH IAD-A2627031 p 288 N93-28901 ENGLAND, HARVEY M., JR. Plant growth modeling at the JSC variable pressure growth chamber - An application of experimental design EISENSTARK, ABRAHAM Comparisons of molecular sieve oxygen concentrators Detection of genetic effects of excess near-ultraviolet for potential medical use aboard commercial aircraft ISAE PAPER 921356) p 307 A93-41515 irradiation under exobiology conditions AD-A2536481 p 31 N93-11279 [AD-AZ53648]

ENGLAND, HARVEY, JR.

Comparison of portable crewmember protective breathing equipment (CPBE) designs
[DO7/FAA/AM-93/6] p 310 N93-27121 EDEEN, MARYBETH A. p 39 A93-17446 EKLUND, WAYNE D. Analysis of the Variable Pressure Growth Chamber using the CASE/A simulation package Compliant walker INASA-CASE-GSC-13348-2] p 53 N93-14708 ISAE PAPER 9211221 n 291 A93-41314 ELDER, GEOFFREY C. B. A hybrid regenerative water recovery system for ENIN, L. D. Quantitative EMG analysis in soleus and plantaris during The effect of low-intensity lunar/Mars life support applications electromagnetic [SAE PAPER 921276] p 301 A93-41445 hindlimb suspension and recovery p 326 A93-44176 millimeter-wave radiation on the rat cardiovascular Plant canopy transpiration in bioregenerative life support FLOREDGE, DONALD p 2 A93-12861 Human factors design principles for instrument approach ENSOLI, FABRIZIO systems - The link between mechanistic and empirical procedure charts. Volume 1: Readability models Silent HIV infection p 16 N93-11293 p 104 N93-15968 [SAE PAPER 921355] p 306 A93-41514 AD-A257234] ERCOLINE, WILLIAM E. Regenerative Life Support Systems Test Bed performance - Lettuce crop characterization ELFIMOV. A. I. C-141 aircrew sleep and fatigue during the Persian Gulf Functional state of the vegetative nervous system in conflict p 371 N93-32265 SAE PAPER 921391] women undergoing high-altitude adaptation and readaptation to 760 m above sea level ERCOLINE, WILLIAM R. p 309 A93-41549 EDELMAN, N. H. HUD climb/dive ladder configuration and unusual Modulation of respiratory responses to carotid sinus p 44 A93-15165 p 185 A93-27129 attitude recovery **ELKINS, NANCY** nerve stimulation by brain hypoxia p 79 A93-20038 Head-up display standardization and the utility of analog Metabolic factors influencing myocardial recovery from EDER, ARTUR H. vertical velocity information during instrument flight

acidosis (CiC3)

IAD-A2523761

ELLEGAARD, P.

p 14 N93-10796

p 360 A93-47096

Arterial pulse pressure and vasopressin release in

humans during lower body negative pressure

Evaporation cycle experiments - A simulation of

p 354 A93-43792

p 319 N93-28862

salt-induced peptide synthesis under possible prebiotic

Oculo-motor responses and virtual image displays

conditions

p 189 A93-27451

p 353 N93-30167

Epidemiology of United States Air Force spatial

Utility of a ghost horizon and climb/dive ladder line

disorientation accidents: 1990-1991 p 133 N93-19679

tapering on a head-up display

[AD-A264401]

p 302 A93-41453

p 160 A93-27048

p 226 N93-24352

p 329 A93-44933

p 233 A93-33450

p 283 N93-27409

p 235 N93-24128

p 230 A93-31031

p 111 A93-21684

p 32 N93-11930

p 9 A93-11690

p 80 A93-20663

p 330 N93-30483

p 273 A93-41167

p 116 A93-21687

ERETH, MARK H. Digital flight data as a measure of pilot performance associated with fatigue from continuous operations during the Persian Gulf conflict p 371 N93-32268 ERETH, MARK H. Limited heat transfer between thermal compartments during rewarming in vasoconstricted patients p 88 A93-18036 ERICKSEN, BRYCE J. Low-cost monochrome CRT helmet display p 228 A93-30061 Low-cost color LCD helmet display p 228 A93-30062 Low-cost helmet-mounted displays IAD-A262616! p 317 N93-28479 ERICKSON, J. Technology test results from an intelligent, free-flying robot for crew and equipment retrieval in space p 184 A93-27037 ERICKSON, J. D. An experiment in vision based autonomous grasping rithin a reduced gravity environment p 193 A93-29137 ERICKSON, JON D. Future needs for space robots for SEI p 182 A93-27002 Cooperative intelligent robotics in space III; Proceedings of the Meeting, Boston, MA, Nov. 16-18, 1992 p 190 A93-29101 ISPIE-18291 Person-like intelligent systems architectures for robotic shared control and automated operations p 191 A93-29113 ERICKSON, K. Plasmid encoded virulence of Yersinia p 275 N93-28199 [FOA-B-40419-4.4] ERNSTING, J. Unconsciousness in flight and its prevention p 217 A93-32787 ERTEM. G. Comet Halley as an aggregate of interstellar dust and further evidence for the photochemical formation of organics in the interstellar medium p 108 A93-17824 ERTÉM, GOZEN The binding and reactions of nucleotides and polynucleotides on iron oxide hydroxide polymorphs p 325 A93-43795 Oligomerization reactions of ribonucleotides - The reaction of the 5'-phosphorimidazolide of adenosine with diadenosine pyrophosphate on montmorillonite and other minerals p 412 A93-55998 ESKEN, ROBERT L. Methods for test and evaluation of night vision goggle integrated helmets p 188 A93-27182 ESKEW, R. T., JR. The effects of luminance boundaries on color perception p 22 N93-11841 AD-A2507051 ESKEW, RHEA T., JR. Colour is what the eye sees best p 159 A93-26245 ESLINGER, ROBERT The USAF Test Pilot School flight control systems [AIAA PAPER 92-4067] p 24 A93-11253 ETTER, BRAD D. Growing wheat to maturity in reduced gas pressures [NASA-CR-193245] p 277 N93-29216 Collision avoidance of a multiple degree of redundancy manipulator operating through a window p 136 A93-23846 EVANICH, PEGGY L Overview of NASA's 1991 Life Support Systems Analysis Workshop [SAE PAPER 921118] p 290 A93-41310 1991 NASA Life Support Systems Analysis workshop INASA-CR-44661 p 310 N93-27100 1992 NASA Life Support Systems Analysis workshop [NASA-CR-4467] p 310 N93-27101 EVANS, HARLAN J. Regional changes in muscle mass following 17 weeks of bed rest p 93 A93-20039 EVANS, RICHARD H. Head-up display standardization and the utility of analog vertical velocity information during instrument flight p 189 A93-27451 EVANS, SUSAN M. Requirements for an automated human factors, manpower, personnel, and training (HMPT) planning tool p 195 N93-21753 [AD-A258531] EVATT, B. L. Fundamental diagnostic hematology: Anemia (second edition) LPB93-1886621 p 338 N93-31140

Fundamental diagnostic hematology: The bleeding and

p 338 N93-31158

clotting disorders (second edition)

EVERT, MARTHA F. Consumables and wastes estimations for the First Lunar ISAE PAPER 9212871 EVONIUK, G. Effects of running the Bostom Marathon on plasma concentrations of large neutral amino acids EVTEEVA, M. S. Early andrological effects in rats under the combined effect of irradiation and vibration p 242 A93-35263 EWALD, R. Mir 1992 operations and crew training **EXTON, CARRIE** Separation of rat pituitary secretory granules by continuous flow electrophoresis Visual search in virtual environments F FADEN, A. I. Secondary injury factors and preventative treatment [PB93-176014] FAGHRI, A. An innovative method for hand protection from extreme cold using heat pipe IAD-A2597201 FAHIM. A. Robotics evaluation and characterization (REACH) of the SSRMS concept and technical issues IAIAA PAPER 93-1156| FAITHFULL, N. S. Increased plasma O2 solubility improves O2 uptake of in situ dog muscle working maximally FALTISCO, ROBERT M. Intelligent fault management for the Space Station active thermal control system FAN. YA-MIN The responses of cardiovascular during head-up tilt plus lower body negative pressure FANG, MEIKA Cellular immunosenescence - An overview FARACH, M. A robust model for finding optimal evolutionary tree IDE93-0106821 FAREH. JEANNETTE Norepinephrine content in discrete brain areas and neurohypophysial vasopressin in rats after a 9-d spaceflight (SLS-1) FARLEY, CLAIRE T. Energetics of walking and running - Insights from simulated reduced-gravity experiments FARLEY, W. W. AD-A255989| AGARD-AG-308-ADD population: Preliminary report

Effects of spatial luminance nonuniformities on visual-task performance and subjective uniformity p 58 N93-14416 FARMER, ERIC Human performance assessment methods p 133 N93-18868 FARMER, JEFFERY T. Conceptual design of a lunar base thermal control p 68 N93-14003 Cardiovascular risk factors in an Italian Air Force p 362 N93-32252 FARRACE, STEFANO Influence of stress on lymphocyte subset distribution -A flow cytometric study in young student pilots p 118 A93-25203 Idiopathic Reactive Hypoglycemia in a population of healthy trainees of an Italian Air Force military school p 368 N93-32248 FARRELL, J. F. The active-matrix LC head-down display (AM-LCD): Operational experience and growth potential p 148 N93-19782

FARUQUE, MONAZER MAC to VAX connectivity: Heartrate spectral analysis system p 254 N93-25594 FASZCZA, JEFFREY J. Membrane technology for zero gravity life support

systems p 304 A93-41482 SAE PAPER 921320)

FATTOROSSI. A. Dramatic reduction of meningococcal meningitis among military recruits in Italy after introduction of specific p 18 N93-11303 vaccination

FATTOROSSI, ANDREA

Influence of stress on lymphocyte subset distribution -A flow cytometric study in young student pilots p 118 A93-25203

Clinical and immunological response to vaccination with parenteral or oral vaccines in two groups of 30 recruits p 19 N93-11305

FAUGHN, JIM A.

Effect of protective clothing ensembles on artillery battery crew performance p 64 N93-12960 LAD-A2543271

FAULK, D. M. Results of a structured psychiatric interview to evaluate NASA astronaut candidates p 223 A93-32780

Multimodal dialog system for future cockpits

p 146 N93-19773

Histochemical and contractile responses of rat medial gastrocnemius to 2 weeks of complete disuse

p 157 A93-28752 FEDERICO, M.

HIV variability and perspectives of a vaccine

p 16 N93-11294 FEDOROV, A. A.

A method of multivariate analysis of data in the study of the effects of space flight factors on the rat brain neuron p 155 A93-28727

FEDOROV. B. M. The rhythm of heart activity and arrhythmia in long-term p 119 A93-25652

space flights FEDOROV, V. I. The effect of the activation of the sympatho-adrenal

system on catecholamine inactivation in rat lungs p 2 A93-12864

FEDORUK, A. G.

Psychophysiological factors which impair the professional reliability of a pilot in emergency situations p 129 A93-23150 FEDOTOVA, N. IU.

Metabolism in cosmonauts - Results of biochemical blood analyses for crew members of seven primary p 250 A93-35254 missions on the Mir orbital station FEEKS, EDMOND

Psychiatric diagnoses aboard an aircraft carrier p 57 A93-16162

FEGAN-MEYER, D.

Vascular uptake of rehydration fluids in hypohydrated men at rest and exercise

p 255 N93-26133 NASA-TM-103942]

FEIGHAN, PATRICK Knowledge-based task planning for the Special Purpose Dextrous Manipulator p 191 A93-29110

FEIGMAN, E. E. The effect of elevated nitrogen pressure on motor activity and relationships among brain centers in monkeys

p 75 A93-18289 A device for the prolonged restraint of primates in closed-space conditions p 77 A93-18302

FELDBERG, RASMA Self-programming of matter and the evolution of proto-biological organizations

DE92-0152441 p 5 N93-10628

FELLOWS, MIKE R.

Two strikes against perfect phylogeny

[RUU-CS-92-08] p 157 N93-20848 FENDELL F. F.

Pyrolysis of vegetation by brief intense irradiation

p 324 A93-42915 FEREBEE, ROBERT N.

Metabolic response of environmentally isolated microorganisms to industrial effluents: Use of a newly p 245 N93-26066 described cell culture assay

FEREZOU, J. Reduction of postprandial lipemia after acute exposure

p 382 A93-49567 to high altitude hypoxia FERGUSON, BECKI

Phenytoin as a countermeasure for motion sickness in NASA maritime operations p 401 A93-55162 FERGUSON, E. B.

Health services at the Kennedy Space Center

p 154 A93-28711

FERIN. JURAJ Potential health effects of fume particles on the crew

ISAE PAPER 9213871 p 308 A93-41545 Potential health hazards from thermal degradation events - Particulate vs. gas phase effects

[SAE PAPER 921388] p 282 A93-41546 FERN, EDWARD

Protein absorption and energy digestibility at high altitude p 115 A93-21683

FERNANDEZMUNOZ, FRANCISCO Tobacco and health of the pilot IETN-93-936931 p 217 N93-23414

JPB93-1886701

FORTNEY, SUZANNE M.

PERSONAL AUTHOR INDEX FERRALL, JOE FINKELSTEIN, JACOB FLEET, MARY L. Human life support during interplanetary travel and Potential health hazards from thermal degradation Autonomous support for microorganism research in domicile. V - Mars expedition technology trade study for events - Particulate vs. gas phase effects snace solid waste management [NASA-CR-192062] |SAE PAPER 921388| p 282 A93-41546 ISAE PAPER 9211191 p 290 A93-41311 FINN. CORY FLEG, JEROME FERRALL, JOSEPH Techniques for optimal crop selection in a controlled Cardiovascular responses to lower body negative Human life support during interplanetary travel and ecological life support system pressure in trained and untrained older men domicile. VI - Generic modular flow schematic for hybrid | NASA-TM-103950 | p 33 N93-12018 physical/chemical-biological life support systems FINNEY, BEN R. FLYNN, CHRISTOPHER F. SAE PAPER 9211201 Space migrations: Anthropology and the humanization p 290 A93-41312 Alcoholism and treatment in airline aviators - One FERRANDO, A. A. p 105 N93-16862 company's results FIORELLI, VALERIA Field test of a computer-driven tool to measure Microwave digestion preparation and ICP determination psychological characteristics of aircrew [AD-A264484] of boron in human plasma Silent HIV infection p 16 N93-11293 p 377 A93-49570 FERRANTI, MICHAEL J. FIORENTINO, R. The effect of roll-stabilized sensor information on pilot A physician's workstation designed for NASA and FLYNN, MICHAEL T. performance p 175 A93-27130 earth-based applications p 189 A93-28695 Water reclamation technology development for future FERRARA, MARINO FIORINI P. long range missions Effects of air bubble contamination in recirculating water Integrated tools for teleoperated satellite repair SAE PAPER 9213511 p 409 A93-54845 loop FOERG. SANDRA ISAE PAPER 921282] p 302 A93-41450 FIORINI, PAOLO Operation of FERRARI, ROBERTO A procedure for the frequency analysis of telerobotic liquid-sorbent/membrane-contactor system for removing Body fluid compartments, renal blood flow, and tasks data p 392 A93-50513 carbon dioxide and water vapor from air hormones at 6,000 m in normal subjects Man-machine cooperation in advanced teleoperation [SAE PAPER 921321] p 281 A93-41125 p 366 N93-32106 FOERG, SANDRA L. FERRARO, J. S. Modeling of membrane processes for air revitalization Thermoregulatory responses of rhesus monkeys during An overview of the dynamic predictive architecture for and water recovery p 154 A93-28706 robotic assistants p 191 A93-29112 spaceflight JSAE PAPER 9213521 FERRIERA, S FIRTH, JOHN L. FOLDAGER, NIELS Study of SCN neurochemistry using in vivo microdialysis The effects of structural failure on injuries sustained in Volume-homeostatic mechanisms in humans during a the M1 Boeing 737 disaster, January 1989 in the conscious brain: Correlation with circadian activity 12-h posture change p 118 A93-25201 FOLEY, J. The effects of brace position on injuries sustained in the M1 Boeing 737/400 disaster, January 1989 IAD-A2598031 p 217 N93-23459 Multi-function visor FERRIS, J. P. FOLK, CHARLES L. p 118 A93-25202 Comet Halley as an aggregate of interstellar dust and The role of spatial attention in visual word processing further evidence for the photochemical formation of Symbology for head up and head down applications for organics in the interstellar medium p 108 A93-17824 FOLLENIUS, M. FERRIS, JAMES P. highly agile fighter aircraft: To improve spatial awareness, Nocturnal pituitary hormone and renin profiles during Chemical markers of prebiotic chemistry in hydrothermal trajectory control, and unusual attitude recovery, part 1 chronic heat exposure p 318 N93-28857 systems p 74 A93-18006 p 74 A93-18010 FOMICHEV, ALEKSANDR A. FISHER, H. THOMAS Functions simulation model of integrated regenerable Simplified Aid For Crew Rescue (SAFR) The binding and reactions of nucleotides and polynucleotides on iron oxide hydroxide polymorphs life support system p 313 N93-27793 [SAE PAPER 921201] p 325 A93-43795 FISHER, JOHN FÒOTE, STEPHEN L. Water reclamation technology development for future Oligomerization reactions of ribonucleotides - The Extrathalmic modulation of cortical function reaction of the 5'-phosphorimidazolide of adenosine with long range missions [AD-A255440] p 306 A93-41510 diadenosine pyrophosphate on montmorillonite and other ISAE PAPER 9213511 FÖRCHUK, C. p 412 A93-55998 FISHER, SCOTT S. minerals The overview effect - The impact of space exploration Stereoscopic displays and applications III: Proceedings on the evolution of nursing science p 155 A93-28722 FESTER, DALE A. Lunar base pressure, O2 fraction, and ExtraHabitat of the Meeting, San Jose, CA, Feb. 12, 13, 1992 FORD, TAMERIA L. |SPIE-1669| p 408 A93-53119 Activity suit design p 346 A93-42125 Modification of yield and chlorophyll content in leaf FISK, ARTHUR D. FETH, LAWRENCE L. lettuce by HPS radiation and nitrogen treatments Demodulation processes in auditory perception [AD-A255748] p 54 N93 Contextual change and skill acquisition in visual search Does the rate of change affect performance? p 54 N93-15053 FORD, TIM p 178 A93-27187 FEUILLOLEY, M. Biodeterioration of materials in water reclamation Disruption and maintenance of skilled visual search as Immunocytochemical localization of atrial natriuretic systems ISAE PAPER 921311] a function of degree of consistency p 389 A93-52501 factor (ANF)-like peptides in the brain and heart of the treefrog Hyla japonica - Effect of weightlessness on the Automatic information processing and high performance FÖRSBERG, A. skills: Individual differences and mechanisms of performance improvement in search-detection and distribution of immunoreactive neurons and cardiocytes Plasmid encoded virulence of Yersinia (FOA-B-40419-4.4) p 377 A93-49561 complex tasks FIALA, GERHARD FÖRSBERG. AAKE [AD-A257711] p 100 N93-17684 Life in hot springs and hydrothermal vents Automatic information processing and high performance p 243 A93-36559 skills FOA-B-40420-4,4] FIALA, JOHN [AD-A258473] p 132 N93-18273 FORSMAN, M. A manipulator control testbed - Implementation and applications I AAS PAPER 92-054) Effect of hindlimb unweighting on single soleus fiber p 392 A93-50594 FIEBER, JOSEPH P. maximal shortening velocity and ATPase activity p 377 Á93-49294 [FOA-8-40421-4.4] Lunar base requirements for human habitability FITZGERALD, KAREN A. p 345 A93-41995 Pax permanent Martian base: Space architecture for the Behavioral validation of a hazardous thought pattern p 176 A93-27142 instrument [FOA-B-40422-4.4] first human habitation on Mars, volume 5 [NASA-CR-192042] p 140 N93-18156 FLACH, JOHN M. Graphical displays - Implications for divided attention, FILBUM, THOMAS P. Development of a regenerable metal oxide sheet matrix focused attention, and problem solving p 102 A93-19984 CO2 removal system [SAE PAPER 921298] Perception/action: An holistic approach p 302 A93-41463 I AD-A259597 | p 235 N93-24067 FILIPENKOV, S. N. Problems of medical support during extravehicular activity during flights to Mars p 90 A93-18411 FLADE, K.-D. consciousness Mir 1992 operations and crew training ctivity during flights to Mars p 90 A93-18411 Ultrasonic location of gas bubbles in the vascular bed p 226 N93-24352

FLANAGAN, DAVID T.

ISAE PAPER 9213161

FLANNAGAN, M. J.

[PB93-174720] FLASCK, RICHARD A.

26-28, 1991

ISPIE-1456 I

results

water system - Three year results [SAE PAPER 921310]

Biofilm formation and control in a simulated spacecraft

Regenerable Microbial Check Valve - Life cycle tests

Discomfort glare from high-intensity discharge headlamps: Effects of context and experience

Large-screen-projection, avionic, and helmet-mounted

displays; Proceedings of the Meeting, San Jose, CA, Feb.

p 303 A93-41472

p 303 A93-41478

p 336 N93-30659

p 181 A93-26881

of a person working in a space suit p 262 A93-35239

Electromyographic investigations of tremor in aquanauts

Effects of caffeine on mental performance and mood:

Computer simulations of object discrimination by visual

Implications for aircrew members p 372 N93-32269

p 90 A93-18292

p 104 A93-20779

p 106 N93-17042

p 12 N93-10271

FILIPOVA, D. T.

in simulated immersions

Beryllium toxicity - An update

NASA-CASE-MFS-28632-1 |

Wheels for wheelchairs and the like

FINCH, GREGORY L.

FINE, BERNARD J.

FINKEL, I FIF H

IAD-A2533451

cortex

FINCKENOR, JEFFREY

p 275 N93-28199 Intracellular targeting of the Yersinia YopE cytotoxin in mammalian cells induces actin microfilament disruption p 275 N93-27989 Characterization and classification of strains of Francisella tularensis isolated in the central Asian focus of the Soviet Union and in Japan p 275 N93-28200 Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia p 275 N93-28212 FORSTER, ESTRELLA M. The effect of G-LOC on psychomotor performance and p 130 A93-25205 FORSTER, ESTRELLE M. Statistical analysis of the human strangulation experiments: Comparison to +Gz-induced loss of (AD-A2554851 p 54 N93-14789 FORTMANN, ROY C. Survey of protocols for conducting indoor air quality investigations in large buildings p 194 N93-21215 PR93-119865] FORTNEY, SUZANNE Cardiovascular responses to lower body negative pressure in trained and untrained older men p 115 A93-21686 FORTNEY, SUZANNE M. Development of lower body negative pressure as a countermeasure for orthostatic intolerance p 83 A93-17529

Orthostatic intolerance during a 13-day bed rest does

Transcapillary fluid responses to lower body negative ressure p 380 A93-49292

not result from increased leg compliance

p 280 A93-41119

p 83 N93-17780

p 115 A93-21686

p 341 N93-30425

p 306 A93-41510

p 304 A93-41483

p 306 A93-41511

p 387 A93-52620

p 146 N93-19770

p 339 A93-44922

p 387 A93-52619

p 295 A93-41377

p 53 N93-14782

p 328 A93-44880

p 303 A93-41473

breadboard

p 257

A93-35499

FORTRAT, JACQUES O. Effect of aerobic capacity on Lower Body Negative, Pressure (LBNP) tolerance in females p 128 N93-20318 INASA.TP.32081 FORTRAT, JACQUES O. Effects of 28-day isolation (ESA-ISEMSI'90) on blood pressure and blood volume regulating hormones p 251 A93-35495 FOSTER, RUSSELL G. Photoreceptors regulating circadian behavior: A mouse model p 337 N93-30908 FOSTER, SCOTT H. Virtual environment display for a 3D audio room imulation p 408 A93-53125 FOUGHT, DONALD E. Line-of-sight determination in real-time simulations [AIAA PAPER 93-3567] p 406 A93-52666 FOUILLOT, J. P. Study of the spectrum of power of cardiac rhythm during tasks relating to the safety of the control of an p 127 N93-19707 Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 FOWLER, BARRY The effects of hypoxia on auditory reaction time and P300 latency p 47 A93-16156 FOWLKES, JENNIFER E. Changes in the dark focus of accommodation associated with simulator sickness p 379 A93-49222 Prediction of motion sickness susceptibility A93-55940 p 403 FOX. PETER T. Proceedings of Workshop 1: The Human Brainmap Database (AD-A2607201 p 258 N93-25654 FOX, ROBERT A. Investigating motion sickness using the conditioned taste aversion paradigm p 400 A93-55937 FOYLE, DAVID C. Human factors issues in the use of night vision devices p 189 A93-27193 Proposed evaluation framework for assessing operator performance with multisensor displays p 232 A93-33444 Visual cues in low-level flight - Implications for pilotage, training, simulation, and enhanced/synthetic vision p 264 A93-35918 FRAMPTON ROBERT F. Space Shuttle Orbiter oxygen partial pressure sensing and control system improvements ISAF PAPER 921347] p 305 A93-41506 FRANCIS, COLIN M. Space telerobotic research and applications at Space Systems/Loral [AAS PAPER 91-046] p 62 A93-15588 FRANCOLINI, P. Absence of protective immunity against diphtheria in a large proportion of young adults p 18 N93-11302 FRANKEL, RICHARD B. Multiple evolutionary origins of magnetotaxis in FRAPPIER, G. The development of an automated cell culture system for use in space life science research p 158 N93-21085 Respiratory response to varying degrees of tilt and lower body negative pressure p 173 N93-21114 FREEMAN, JAMES E. Epidemiology of United States Air Force spatial disorientation accidents: 1990-1991 p 133 N93-19679 FREGOSI, RALPH F. Muscle glucose uptake in the rat after suspension with p 326 A93-44178 single hindlimb weight bearing FRENCH J. Nutrition for a typical MAC crew during Desert Storm p 368 N93-32245 FRENCH, JONATHAN Effects of early bright, late bright and dim illumination upon circadian neuroendocrine, electrophysiological and behavioral responses [AD-A254129] p 13 N93-10661 The lifestyle and dietary consumption patterns of United States Air Force aviators within air training command at p 369 N93-32257 Randolph Air Force Base, Texas Subjective mood and fatigue of C-141 crew during Desert Storm p 370 N93-32264 C-141 aircrew sleep and fatigue during the Persian Gulf p 371 N93-32265 conflict Digital flight data as a measure of pilot performance ssociated with fatigue from continuous operations during p 371 N93-32268 the Persian Gulf conflict FRENCH, LLOYD Timing considerations of Helmet Mounted Display

p 233 A93-33449

FRENCH, MARGARET FUJIL M. D. Electrically modifiable nonvolatile SONOS synanses for Neurology of microgravity and space travel electronic neural networks IAD-A2583181 p 122 N93-18252 FILIR T FRESA, MARK Controlled Ecological Life Support System (CELSS) modelina p 137 A93-25308 OCAM - A CELSS modeling tool: Description and ISAE PAPER 9212411 p 298 A93-41413 FREY M A Effects of spaceflight on the musculoskeletal system -NIH and NASA future directions p 383 A93-49568 FREY, MARY A. Blood and urine responses to ingesting fluids of various p 83 A93-17528 salt and plucose concentrations FREY, MARY A. B. Cerebral blood velocity and other cardiovascular responses to 2 days of head-down tilt n 280 A93-41122 FRIEDMAN, M. A. Gray water recycling with a unique vapor compression distillation (VCD) design **ISAE PAPER 921318**] p 304 A93-41480 FRIEND JEFFREY A Comparative evaluation of a monocular head mounted display device versus a flat screen display device in presenting aircraft maintenance technical data IAD-A259684 I p 234 M p 234 N93-23660 FRIESEN, DWAYNE T. liquid-sorbent/membrane-contactor system for removing carbon dioxide and water vapor from air |SAE PAPER 921321| p 304 A93-41483 A novel membrane device for the removal of water vapor and water droplets from air ISAE PAPER 9213221 p 304 A93-41484 FRIGERE, M.-F. Clinical and diagnostic requirements - Biochemical exploration of amino acid metabolism, tRNA turnover and lymphocyte activation p 49 A93-17442 Evaluation of personal cooling systems in conjunction with explosive ordnance disposal suits p 350 N93-29471 I AD. A262862 I FRISCH, PAUL H. Design/development of an enhanced biodynamic p 142 N93-19667 manikin FRITSCH, J. M. Influence of ten-day head-down bedrest on human carotid baroreceptor-cardiac reflex function p 161 A93-28678 FRITSCH, JANICE M. Human autonomic responses to actual and simulated p 85 A93-17540 weightlessness FROLOV, N. I. The prospects for the improvement of medical monitoring of the health of flight personnel in a military p 10 A93-12969 Psychophysiological characteristics of the activity of flight personnel during training on VTOL aircraft p 45 A93-15175 Predicting increases in skin temperature using heat stress indices and relative humidity in helicopter pilots Atrial natriuretic peptide degradation by CPA47 cells -Evidence for a divalent cation-independent cell-surface proteolytic activity p 155 A93-28726 FRYE, ROBERT J. Closed ecological systems: From test tubes to Earth's p 315 N93-27976 hiosphere FRYSINGER, S. Treatment of human-computer interface in a decision support system I DE93-002281 I p 237 N93-24502 **FUCHS, HENRY** Advanced technology for portable personal p 32 N93-11783 [AD-A253808] FUCHS, S. P. Quick-disconnect harness system for helmet-mounted p 228 A93-30065 displays Symbology for head up and head down applications for highly agile fighter aircraft: To improve spatial awareness, trajectory control, and unusual attitude recovery, part 1 p 318 N93-28857 FUGLESANG, C. European astronaut candidates in training in the CIS p 256 A93-34593 **FUHS, SUSAN** Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979

CELSS nutrition system utilizing snails p 394 A93-52411 FUJIWARA, T. Effects of high altitudes on finger cooling test in Japanese and Tibetans at Qinghai Plateau p 382 A93-49560 **FUJIYA. HIROTO** Ultrastructural and biochemical studies on muscle atrophy induced by suspension and suspension with p 200 A93-31530 denervation in lower limbs of rats FUKUDA, YASUSHI Research of a free-flying telerobot. IV - Development p 411 A93-56254 of dual-arm manipulation system FUKUDA, YASUSI Research of a free-flying telerobot. V - Handling a target with multi-arms p 411 A93-56255 FULCO, CHARLES S. Field trial of caffeine on physical performance at altitude: An attempt to overcome the challenge AD-A2642601 p 337 N93-30894 Thermoregulatory responses of rhesus monkeys during p 154 A93-28706 spaceflight FUNK, GLENN A. Defining contamination control requirements for non-human research on Space Station Freedom ISAE PAPER 921386 p 308 A93-41544 FUNK KENNETH H II Agent-based pilot-vehicle interfaces - Concept and prototype p 262 A93-34986 FUNTOWA I Monitoring of cardiovascular parameters during the p 220 N93-24367 AustroMir space flight **FUSI. STAFANO** Constraints on learning in dynamic synapses p 100 N93-17026 [PREPRINT-890] G GABOVA, A. V. Ecological-morphological features of the growth and distribution of cultures of unicellular organisms in a p 241 A93-35248 GARRIELL JOHN D. E. Effects of caffeine on mental performance and mood: Implications for aircrew members p 372 N93-32269 GABRIELSEN, ANDERS Central cardiovascular pressures during graded water immersion in humans p 402 A93-55457 GABRYNOWICZ, J. I. The province and heritage of mankind reconsidered: A p 69 N93-14018 new beginning GADDY, J. L. Biological conversion of synthesis gas culture development IDE92-0012791 p 6 N93-12482 GADKARI, KETAN Conceptual design of a thermal control system for an inflatable lunar habitat module INASA-CR-1920141 p 140 N93-18113 GADSBY, PETE Crew Health Care Systems installations for Space Station Freedom [SAE PAPER 921249] p 298 A93-41420 GAFFNEY, F. A. Effects of head-down tilt for 10 days on the compliance p 162 A93-28680 of the leg Cardiovascular response to lower body negative pressure before, during, and after ten days head-down p 162 A93-28681 The effects of a 10-day period of head-down tilt on the cardiovascular responses to intravenous saline loading p 163 A93-28686 Head-down tilt bedrest: HDT'88 - An international collaborative effort in integrated systems physiology p 164 A93-28689 GAGNON, FAITH A. Study design for microgravity human physiology experiments p 118 A93-25208 GAIDA, M. Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme p 226 N93-24382 GAISER, KAREN K. The space life sciences strategy for the 21st century p 1 A93-10636 NASA's manned space flight program AAS PAPER 91-626 p 402 A93-55805 GALANTER, EUGENE Decision paths in complex tasks [NASA-CR-192121] p 132 N93-18359

p 168 A93-28735

GALBO, H.

Influence of in vivo hypobaric hypoxia on function of lymphocytes, neutrocytes, natural killer cells, and p 280 A93-41123

GALEN, FRANCOIS-XAVIER

Effects of acute hypoxia on renal and endocrine function at rest and during graded exercise in hydrated subjects p 93 A93-20035

GALEN, T. J.

Toxicokinetics of inhaled bromotrifluoromethane (Halon p 278 A93-39705 1301) in human subjects

GALINDO, SAMUAL, JR.

Acquisition of physiological data during G-induced Loss of Consciousness (G-LOC) IAD-A2644921 p 335 N93-30400

GALKIN, V. M.

Engineering and technical support of experiments on board the Cosmos-2044 biosatellite p 77 A93-18419

GALLAGER, SCOTT M.

How do zooplankton feed? A critical microgravity experiment p 158 N93-21097

GALLAGHER, S. K.

Distribution of human waste samples in relation to sizing p 68 N93-14001 waste processing in space GALLASCH, F.

Monitoring of cardiovascular parameters during the AustroMir space flight p 220 N93-24367

GALLIMORE, J. J.

Effects of spatial luminance nonuniformities on visual-task performance and subjective uniformity [AD-A255989]

GALLOWAY, MARLA L.

Comparing the Cattell 16PF profiles of male and female commercial airline pilots p 178 A93-27177

GAMACHE, GERALD L.

The effect of pain on task performance: A review of the literature p 59 N93-15216

Human life support during interplanetary travel and domicile. VI - Generic modular flow schematic for hybrid physical/chemical-biological life support systems

[SAE PAPER 921120] p 290 A93-41312 GANDER, D. V.

Computerized teaching of pilots to spatial orientation p 404 A93-52694

GANDER, PHILIPPA H.

Age, circadian rhythms, and sleep loss in flight crews p 211 A93-30276

GANDHI, P. A.

Relative resistance of biofilms and planktonic cells of common molds and yeasts to antimicrobials

[SAE PAPER 921212] p 273 A93-41388

GANTNER, T. E.

Quantification of human responses

p 340 N93-29564 GANTZ, DONALD T.

Evaluation and estimation of handling qualities via statistical modeling of pilot response data p 69 N93-14548 AD-A2553241

GARCIA, HECTOR D.

Setting Spacecraft Maximum Allowable Concentrations for 1 hour or 24 hour contingency exposures to airborne chemicals

[SAE PAPER 921410]

p 310 A93-41564 GARCIA, J. A. AZOFRA

Survey of smoking habits in the Spanish Air Force

p 370 N93-32262 GARCIA, SHARON K.

Acquisition of physiological data during G-induced Loss of Consciousness (G-LOC) I AD-A2644921 p 335 N93-30400

GARDIER, A. M.

Persistent blockade of potassium-evoked serotonin release from rat frontocortical terminals after fluoxetine administration p 202 A93-32125

GARDINER, P. F.

Histochemical and contractile responses of rat medial gastrocnemius to 2 weeks of complete disuse

GARDNER, R. H.

Scaling issues for biodiversity protection

IDF92-0166891 p 6 N93-12315

GARGIOLI, EUGENIO

The effects of a reduced pressure scenario on the

Columbus APM environmental control system [SAE PAPER 921247] p 298 p 298 A93-41418

GARIEPY, PHILIPPE

Cardiovascular responses during recovery from exercise and thermal stress p 212 A93-30282 GARLAND, JAY

Characterization of the water soluble component of inedible residue from candidate CELSS crops p 139 N93-18111 [NASA-TM-107557]

GARRISON, WILLIAM V.

Transfer effects of scene content and crosswind in landing instruction p 62 A93-15665

GARTRELL, CHARLES F.

1991 NASA Life Support Systems Analysis workshop INASA-CR-44661 p 310 N93-27100 1992 NASA Life Support Systems Analysis workshop NASA-CR-4467

GATES, MICHELE M.

Radiation exposure and dose estimates for a nuclear-powered manned Mars sprint mission

GATEWOOD, OLGA B.

Automated system for early breast cancer detection in mammograms p 253 N93-25568

p 60 A93-13817

GATRELL, LANCE

Accuracy of locating circular features using machine p 182 A93-27022

GAUGER, ANITA K.

An annotated bibliography of research involving women, conducted at the US Army Research Institute of Environmental Medicine

AD-A265497 p 360 N93-31917

GAUQUELIN. GUILLEMETTE

Effects of 28-day isolation (ESA-ISEMSI'90) on blood pressure and blood volume regulating hormones

p 251 A93-35495 Norepinephrine content in discrete brain areas and neurohypophysial vasopressin in rats after a 9-d spaceflight p 273 A93-41167

GAUQUELINE, G.

Investigation of fluid-electrolyte metabolism and its hormonal regulation during the second joint Soviet-French p 247 A93-35207

GAUTHIER, GABRIEL M.

Dynamic analysis of human visuo-oculo-manual coordination control in target tracking tasks p 287 A93-41166

GAUTIER, DANIEL

p 114 N93-18553

GAVACH, C.

Design and preliminary testing of a membrane based water recycling system for European manned space missions

SAE PAPER 921396 p 309 A93-41553

GAYDA, CHRISTIAN

DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field p 284 N93-28469

[ETN-93-93799]

GAZZANIGA, MICHAEL S.

Multimodal interactions in sensory-motor processing (AD-A255780) p 59 N93-15067 GEELEN, G.

Vascular uptake of rehydration fluids in hypohydrated men at rest and exercise p 255 N93-26133

INASA-TM-103942] GEELS, SCOTT

Human habitat design for the Space Exploration p 344 A93-41978 Initiative GEHRIG, W.

The influence of military low-altitude flight noise on the inner ear of the guinea pig. I - Hearing threshold measurements p 377 A93-49555 measurements

GEHRKE, C. W.

Clinical and diagnostic requirements - Biochemical exploration of amino acid metabolism, tRNA turnover and p 49 A93-17442 lymphocyte activation GEHRKE, CHARLES W.

A lunar-based chemical analysis laboratory
SBN 0-937194-25-5 | p 39 A93-17426 (ISBN 0-937194-25-5)

GELLER, E. R.

Analysis of injuries following the crash of Avianca Flight p 382 A93-49562

GELLERT, MARTIN

DNA topoisomerase V is a relative of eukaryotic topoisomerase I from a hyperthermophilic prokaryote p 399 A93-55580

GENCO, LOUIS V.

Effect of microgravity on several visual functions during STS Shuttle missions: Visual Function Tester-Model 1 p 284 N93-28740 (VFT-1) Effect of microgravity on visual contrast threshold during

STS Shuttle missions: Visual Function Tester-Model 2 (VFT-2) p 284 N93-28741 GENTNER, FRANK C.

'Liveware' survey of human systems integration (HSI) tools p 349 A93-42847

GEORGE, J. S.
Functional MRI studies of human vision on a clinical [DE92-017448] p 49 N93-12566

A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522

GEORGINOV, A. A.

Proclinical cardiovascular neurological occupation-related pathological symptoms in helicopter p 91 A93-18416 pilots

GERBER, N.

Aminohydroxybutane bisphosphonate and clenbuterol prevent bone changes and retard muscle atrophy respectively in tail-suspended rats p 271 A93-39703 GERSTENBLITH, GARY

Cardiovascular responses to lower body negative pressure in trained and untrained older men

p 115 A93-21686

GERSTENBRAND, F.

COGIMIR - A study of cognitive functions in microgravity p 174 A93-26569 Space and cognition - The measurement of behavioral functions during a 6-day space mission

p 405 A93-55164

Eye-head-arm coordination and spinal reflexes in p 236 N93-24362 weightlessness

GERZER, R.

Effects of head-down tilt and saline loading on body weight, fluid, and electrolyte homeostasis in man

p 163 A93-28685 Diuresis and natriuresis following isotonic saline infusion in healthy young volunteers before, during, and after HDT p 163 A93-28688

GERZER, RUPERT

Effect of water immersion on renal natriuretic peptide (urodilatin) excretion in humans p 381 A93-49293 GEVINS. A. S.

Mental workload assessment in the cockpit: Feasibility of using electrophysiological measurements, phase 1 |AD-A254138| p 25 N93-10662 [AD-A254138] ...

GEVINS, ALAN

Physiological indices of mental workload JAD-A2616921 p 260 N93-26391 The AFOSR Workshop on the Future of EEG and

MEG [AD-A264338] p 335 N93-30160

GHARIB, C.

Investigation of fluid-electrolyte metabolism and its hormonal regulation during the second joint Soviet-French p 247 A93-35207 space mission

Evaluation of spontaneous baroreflex response after 28 p 386 A93-52404 days head down tilt bedrest

GHARIB, CLAUDE Effects of 28-day isolation (ESA-ISEMSI'90) on blood pressure and blood volume regulating hormones

p 251 A93-35495

Norepinephrine content in discrete brain areas and neurohypophysial vasopressin in rats after a 9-d spaceflight (SLS-1) p 273 A93-41167 GHOSH, A.

Designs and development of a master-slave eleoperated robot p 390 A93-49357 teleoperated robot GHOSH, DAVE

Evaluation of inertial devices for the control of large, flexible, space-based telerobotic arms

p 101 A93-18710 GHOSHEH, NAJATI S.

Cell wall and enzyme changes during the graviresponse of the leaf-sheath pulvinus of oat (Avena sativa) p 329 A93-44941

Dynamics of auxin movement in the gravistimulated leaf-sheath pulvinus of oat (Avena sativa)

p 358 A93-46472

GIANCASPRO, ANTONIO A procedure for the frequency analysis of telerobotic tasks data p 392 A93-50513 p 392 A93-50513 GIBBONS, D.

The development of an automated cell culture system for use in space life science research

p 158 N93-21085

GIBBS, W. N.

Fundamental diagnostic hematology: Anemia (second p 338 N93-31140

Fundamental diagnostic hematology: The bleeding and clotting disorders (second edition) p 338 N93-31158

IPB93-1886701 GIBEAUT, DAVID M.

I PB93-188662 I

Cell wall and enzyme changes during the graviresponse of the leaf-sheath pulvinus of oat (Avena sativa)

GIBSON, C. R. Intraocular pressure and retinal vascular changes during p 278 A93-39710 transient exposure to microgravity

GIBSON, EVERETT K., JR. The Moon: Biogenic elements p 113 N93-18548 GIBSON, RICHARD S.

An analytical study of the effects of age and experience on flight safety p 176 A93-27158

GIBSON, TOM An improved anthropometric test device

p 143 N93-19670

GIBSON, WILLIAM PERSONAL AUTHOR INDEX

GIBSON, WILLIAM Effects of early bright, late bright and dim illumination upon circadian neuroendocrine, electrophysiological and behavioral responses

[AD-A254129] p 13 N93-10661 GIESBRECHT, GORDON G.

A second postcooling afterdrop - More evidence for a convective mechanism p 44 A93-14969 Decrement in manual arm performance during whole p 88 A93-18038 body cooling Effect of task complexity on mental performance during

p 211 A93-30279 immersion hypothermia GILBERT, JOHN H., III

The influence of prior exercise at anaerobic threshold on decompreusion sickness p 8 A93-10333 Time to detection of circulating microbubbles as a risk factor for symptoms of altitude decompression sickness p 46 A93-16153

GILBERT, JOYCE A.

The role of pyridoxine as a countermeasure for in-flight p 255 N93-26068 loss of lean body mass GILBERT, MICHAEL G.

Active vibration damping of the Space Shuttle remote manipulator system p 231 A93-31993 Human-in-the-loop evaluation of RMS Active Damping Augmentation

[AIAA PAPER 93-3875] p 393 A93-51460

GILBERT, S. L.

Longitudinal study of astronaut health - Mortality in the years 1959-1991 p 216 A93-32783 GILBOA, PINI

Designing the right visor

p 181 A93-26885 GILICHINSKII, D. A.

Cryoprotective properties of water in the earth cryolithosphere and its role in exobiology p 269 A93-36558

GILLE, JENNIFER

Studies of the field-of-view resolution tradeoff in virtual-reality systems p 232 A93-33443

GILLEN, CHRISTOPHER M. Effects of dynamic exercise on cardiovascular regulation

during lower body negative pressure p 281 A93-41168

GILLEY, S. D.

Evaluation of the carbon dioxide removal assembly requirements for the Space Station Freedom in the Manned Tended Capability through Permanently Manned Capability

ISAE PAPER 9212311 p 297 A93-41405

GILLIATT, ROGER W.

An assessment of peripheral nerve damage in the rat following non-freezina cold exposure: electrophysiological and histopathological examination LAD-A2642931 p 331 N93-30818

GILLIGAN, LAWRENCE H.

Intensified CCD sensor applications for helmet-mounted p 228 A93-30064 displays

GILLINGHAM, KENT K.

Visual scene effects on the somatogravic illusion

p 88 A93-18035

Epidemiology of United States Air Force spatial disorientation accidents: 1990-1991 p 133 N93-19679 GIOVANNONI, F.

Absence of protective immunity against diphtheria in a p 18 N93-11302 large proportion of young adults GIRI, N. P.

Designs and development of a master-slave p 390 A93-49357 teleoperated robot

GIRTEN, B.

Aminohydroxybutane bisphosphonate and clenbuterol prevent bone changes and retard muscle atrophy respectively in tail-suspended rats p 271 A93-39703 GIUDICELLI C. P.

Immunization of personnel traveling to a destination in p 19 N93-11304 tropical countries: French position

GLAISTER, D. H.

The application of Hybrid 3 dummy to the impact assessment of a free-fall lifeboat p 143 N93-19671 GLASER, PETER E.

Mitigation of dust contamination during EVA operations p 345 A93-42107 on the moon and Mars

GLASS, J. D.

Study of SCN neurochemistry using in vivo microdialysis in the conscious brain: Correlation with circadian activity rhythms

[AD-A259803] p 217 N93-23459

GLEASON, DANIEL

The USAF Test Pilot School flight control systems curriculum

[AIAA PAPER 92-4067] p 24 A93-11253

GLEASON, GERALD A.

Armstrong Laboratory space visual function tester p 284 N93-28739 Effect of microgravity on the visual near point: Visual Function Tester-Model 4 (VFT-4) p 284 N93-28742 GLEASON R F

Melatonin concentrations in the sudden infant death p 203 A93-33030

GLENN, FLOYD A., III

Ocular attention-sensing interface system INASA-CR-1908841 p.65

p 65 N93-13450 GLICKMAN, ALBERT S.

The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216

GLICKMAN, RANDOLPH D.

Investigation of laser-induced retinal damage [AD-A264096] p 338 N93-31094

GLINCHIKOV, V. V.

Morphological analysis of the hepatic structures in experimental animals after infrasonic exposure p 240 A93-35240

GLOD, G. D.

Pharmacological means of stimulating the work capacity of flight personnel engaged in stressful activity

p 45 A93-15173

Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress

p 253 A93-36745

GLUCKMAN, JONATHAN P.

Complex task performance as a basis for developing cognitive engineering guidelines in adaptive automation p 186 A93-27148

Human performance in complex task environments: A basis for the application of adaptive automation

[AD-A255067] p 35 N93-12486

GLUMM, MONICA M.

A study of the effects of lens focal length on remote driver performance p 321 N93-28941

AD-A263191 GMUENDER, FELIX K.

Cultivation of Hamster Kidney cells in a Dynamic Cell Culture System in space (Spacelab IML-1 mission) p 200 A93-32071

Effect of head-down tilt bedrest (10 days) on lymphocyte p 163 A93-28684 reactivity

Problems of medical support during extravehicular activity during flights to Mars p 90 A93-18411

Changes in vitamin A status following prolonged immobilization (simulated weightlessness)

p 166 A93-28720

GODDARD, M.

The development of an automated cell culture system for use in space life science research p 158 N93-21085

GODDARD, NIGEL H.

The perception of articulated motion: Recognizing moving light displays

I AD-A256046 I p 59 N93-14660

GOETERS, KLAUS-MARTIN

Computer-generated parallel tests for aptitude measurement in the selection of aviation operator IDLR-FB-92-291 p 343 N93-31229

Background and objectives of the PARAT program p 343 N93-31230

The concentration loading test system: A computer generated process for acquisition of attentiveness control p 344 N93-31235

GOFMAN, V. R.

Some characteristics of the etiopathogenesis of hearing p 359 A93-45691 loss in aircraft personnel

GOFORTH, H. W., JR.

Combined strength and endurance training: Functional and morphological adaptations to ten weeks of training p 267 N93-26229

GOFORTH, HAROLD W., JR.
Muscle glycogen, fiber type, aerobic fitness, and anaerobic capacity of West Coast US Navy Sea-Air-Land personnel (SEALs) p 121 N93-18209

GOINS, RICHARD T. High-speed civil transport - Advanced flight deck

challenges IAIAA PAPER 92-4231 | p 28 A93-13357

GOLDBERGER, A. L.

Long-range anticorrelations and non-Gaussian behavior p 161 A93-28049 of the heartbeat GOLDEN, D. C.

Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124 GOLDEN, DAGIGAMUWAGE C.

oscillatory motion

Active synthetic soil [NASA-CASE-MSC-21954-1-NP] p 114 N93-19054 GOLDEN, GERALD

p 379 A93-49225

p 342 N93-30680 Current training: Where are we? GOLDING, J. F. Perceptual scaling of whole-body low frequency linear

GOLDMAN, MARVIN

Potential health risks from postulated accidents involving the Pu-238 RTG on the Ulysses solar exploration p 43 A93-13774 mission

GOLDSTEIN, ROBERT

Enhanced performance using physiological feedback p 130 N93-17816 LAD-A2580061

GOLIGHTLY, MICHAEL J. DoD space radiation concerns

p 13 N93-10613 IAD-A2531351

GOLUBCHIKOVA, Z. A.

The rhythm of heart activity and arrhythmia in long-term p 119 A93-25652 space flights Cardiac bioelectric activity in healthy men during a 370-day head-down tilt experiment p 247 A93-35208 Functional state of the cardiovascular system of the cosmonauts of the sixth primary mission on the Mir p 249 A93-35238

GOMEZ-MARINO, M. A.

Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic p 362 N93-32253

GONCHARENKO, A. M.

The character of spontaneous oculomotor activity in veightlessness and during readaptation

p 248 A93-35219

GONZALEZ, R. R.

Biophysical model for handwear insulation testing [AD-A262926] p 320 N93-2 p 320 N93-28884

GOOCHEE, CHARLES F.

Response of a mouse hybridoma cell line to heat shock agitation, and sparging p 328 A93-44928 Intracellular proteins produced by mammalian cells in response to environmental stress p 328 A93-44929

GOODE, PLESENT W. Interactive Scene Analysis Module - A sensor-database fusion system for telerobotic environments

p 184 A93-27032

Technology test results from an intelligent, free-flying robot for crew and equipment retrieval in space

p 184 A93-27037

GOODMAN, B. J.

Introductions to the Proceedings of the Fourteenth Symposium on Biotechnology for Fuels and Chemicals (DE93-006235) p 276 N93-28890

GOODMAN, JERRY R.

Space Shuttle crew compartment debris-contamination [SAE PAPER 921345] p 305 A93-41504

GOODWIN, T. J.

Rotating-wall vessel coculture of small intestine as a prelude to tissue modeling - Aspects of p 171 A93-28765 microgravity

GOONEWARDENE, I. M.

Heterogeneity of changes in lymphoproliferative ability with increasing age

GOPHER, DANIEL

Performance under dichoptic versus binocular viewing conditions - Effects of attention and task requirements p 287 A93-40772

GORANCHUK, V. V.

Immune and physiological mechanisms of hypoxic p 384 A93-51116 Hypobaric hypoxia as a correction and rehabilitation method in aviation medicine p 402 A93-55332

GORBACHEV, V. N. Engineering and technical support of experiments on board the Cosmos-2044 biosatellite p 77 A93-18419

GORDON, CHRISTOPHER J. Measurement of behavioral thermoregulation

IPB92-2170331 p 172 N93-21046

GORDON, CLAIRE C.

Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females,

[AD-A260869]

Anthropometry of the foot and lower leg of U.S. Army soldiers: Fort Jackson, SC p 268 N93-26404

p 265 N93-25628

[AD-A261405]

Use of novel adjuvants and delivery systems to improve the humoral and cellular immune response to malaria vaccine candidate antigens p 20 N93-11308

GORDON, S. L.

Effects of spaceflight on the musculoskeletal system - NIH and NASA future directions p 383 A93-49568 p 383 A93-49568 GORODNITSKY, I.

A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522

GORSKI, ARTHUR M.

User evaluation of a stereoscopic display for space p 408 A93-53123 training applications

GORZALCZANY, MARIAN 8.

Fuzzy neural network methodology applied to medical diagnosis p.334 N93-29546

GOSBEE, JOHN

Using GOMS models and hypertext to create representations of medical procedures for online display p 188 A93-27170

Health maintenance facility system effectiveness

INASA-TM-1047371 p 372 N93-32328

GOSBEE, JOHN W.

Operational space human factors - Methodology for a DSO

ISAE PAPER 9211561

p 293 A93-41339 GOSSELIN, LUC E.

Myosin heavy chain composition in the rat diaphraum. Effect of age and exercise training p 37 A93-14970 GOTTMANN, MATTHIAS

Thermal control systems for low-temperature heat rejection on a lunar base p 65 N93-13717

[NASA-CR-191286]

GOULART, CARLA V.

The Centrifuge Facility Life Sciences Glovebox configuration study | SAE PAPER 921158| p 293 A93-41341

GOULLARD, LUC

Intracardiac hemodynamics in man during short periods p 117 A93-24044 of head-down and head-up tilt

GOURBAT, J. P.

Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304

GOVINDJEE

Primary charge separation in isolated photosystem 2

reaction centers

[DE92-041128] p 82 N93-17189 GOVORUKHA, T. M.

Characteristics of the effect of inert gases on in vivo

tissue respiration p 112 A93-23152 Mechanisms of the antihypoxic effect of taurine

p 325 A93-43073

GOYAL, SANJAY K.

Conceptual design of a thermal control system for an inflatable lunar habitat module

[NASA-CR-192014] p 140 N93-18113

GRABOWSKI, NORMAN A.

Space Station Condensing Heat Exchanger biofilm formation and control evaluation p 308 A93-41541

| SAE PAPER 921383 |

GRAEBER, R. C.

Flight crew sleep during multiple layover polar flights p 380 A93-49226

GRAESSER, ARTHUR C.

Questioning mechanisms during complex learning p 26 N93-11415 LAD-A2473821

GRAHAM, G. A.

The clinical chemistry and immunology of long-duration p 169 A93-28754 space missions

GRAHAM, GLENNA A.

Autonomic physiological data associated with simulator discomfort

[NASA-CR-177609] p 222 N93-24738

GRAHAM, W. B.

Robotics evaluation and characterization (REACH) of the SSRMS concept and technical issues

[AIAA PAPER 93-1156] p 230 A93-31031

GRAMS, R. R.

A physician's workstation designed for NASA and earth-based applications p 189 A93-28695

GRANAAS, MICHAEL

Gloved operator performance study

p 104 N93-16048 IAD-A2568941

GRAPPASONNI, J.

Vaccination against Hepatitis B: The Italian strategy p 15 N93-11289

G-load effects and efficient acoustic parameters for robust speaker recognition p 146 N93-19775

GRATZNER, HOWARD

Measuring the metastatic potential of cancer cells p 244 N93-25566

GRAU, J. Y.

Cognitive factors in the air events of the Air Force during p 134 N93-19682 he last decade

GRAVELLE, MICHAEL D.

CSERIAC case studies in ergonomics information p 349 A93-42850 analysis

GRAVES SEAN

A distributed telerobotics system for space operations p 192 A93-29132

Asthma in aircrew: Assessment, treatment and disposition p 21 N93-11315 GRBIC-GALIC, DUNIA

Anaerobic microbial transformation of aromatic hydrocarbons and mixtures of aromatic hydrocarbons and halogenated solvents

p 42 N93-14557

GREASER MARION I

Myosin heavy chain composition in the rat diaphragm Effect of age and exercise training p 37 A93-14970 GREEN, HOWARD J.

Operation Everest II - Metabolic and hormonal responses to incremental exercise to exhaustion p 115 A93-21685

GREEN, N. D. C.

The physiological limitations of man in the high G environment p 319 N93-28861

GREEN, N. R.

Microwave digestion preparation and ICP determination of boron in human plasma GREEN BACHEL

Selection of a ribozyme that functions as a superior template in a self-copying reaction p 111 A93-22053 GREEN, ROBERT P., JR.

The pigmentary dispersion disorder in USAF aviators p 87 A93-18033

GREENBAUM, E.

Kinetic studies of interfacial photocurrents in platinized chloroplasts

IDE93-0023441 p 211 N93-25104

GREENBERG, J. M.

Comet Halley as an aggregate of interstellar dust and further evidence for the photochemical formation of organics in the interstellar medium p 108 A93-17824 Laboratory simulation of organic grain mantles

p 268 A93-36554

GREENE, E. R. Effects of prolonged head-down bed rest on

physiological responses to moderate hypoxia p 251 A93-35494 Nifedipine for treatment of high altitude pulmonary edema

AD-A2569591

p 95 N93-16187 GREENE, J. J.

Mechanisms of microwave induced damage in biologic materials n 42 N93-14648

IAD-A2557991

GREENISEN, M. C.

Program development for exercise countermeasure: |SAE PAPER 921140| p 292 A93-4132 p 292 A93-41327 GREENISEN, MICHAEL C.

Physiological responses to wearing the space shuttle launch and entry suit and the prototype advanced crew escape suit compared to the unsuited condition

p 149 N93-20319 INASA-TP-32971 Two techniques for measuring locomotion impact forces during zero G

p 217 N93-23410 INASA-TP-33051

GREENISEN, MIKE

Limitations to the study of man in space in the U.S. p 213 A93-30285 space program

GREENLEAF, J. E.

Muscle mitochondrial density after exhaustive exercise in dogs - Prolonged restricted activity and retraining

p 242 A93-35498 Performance and mood-state parameters during 30-day

6 deg head-down bed rest with exercise training p 281 A93-41169 Effect of hemorrhage on cardiac output, vasopressin,

aldosterone, and diuresis during immersion in men p 6 N93-12014 [NASA-TM-103949] Vascular uptake of rehydration fluids in hypohydrated men at rest and exercise

NASA-TM-103942 p 255 N93-26133

GREGORY, R. P.

Electroencephalogram epileptiform abnormalities in candidates for aircrew training p 170 A93-28757

GREINER, THOMAS M.

Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988

1AD-A2608691 p 265 N93-25628

GRENSHAW, A. G.

Intramuscular pressure and electromyography as indexes of force during isokinetic exercise p 380 A93-49291

GRENZOW, FRANK C.

X Ray System, Lightweight Medical (XRSLM) [AD-A258159] p 123 N93-18295

GRETH, RICKY L. Army cockpit delethalization program

Goggles emergency release apparatus |AD-D015685| p 351 N93-29607

GRIFFIN, BRAND N.

Smart space suits for space exploration

p 28 A93-12078

p 61 A93-15419

GRIFFIN, M. J.

Design guide for the ergonomic aspects of helicopter crew seating p 65 N93-13464 HSVR.TR-2091

GRIFFIN, MICHAEL J.

Compensating lags in head-coupled displays using head position prediction and image deflection

p 231 A93-31782 Transmission of vibration through the human body to the head: A summary of experimental data

IISVR-TR-218 p 361 N93-32237

GRIFFITH, GUY

Determination of organic carbon and ionic accountability of various waste and product waters derived from ECLSS water recovery tests and Spacelab humidity condensate p 303 A93-41475 ISAE PAPER 9213131

GRIFFITH, P. Combined strength and endurance training: Functional and morphological adaptations to ten weeks of training IAD-A2610591 p 267 N93-26229

GRIGGER, DAVID J.

Sabatier carbon dioxide reduction system for Space Station Freedom

ISAE PAPER 9211891

GRIGOR'EV, A. I.

Principles of the organization of calcium metabolism p 7 A93-10124

D 294 A93-41368

Health in space - And on Earth n 156 A93-28738 Effect of exercise and bisphosphonate on mineral balance and bone density during 360 day antiorthostatic p 170 A93-28760 hypokinesia Investigation of fluid-electrolyte metabolism and its

hormonal regulation during the second joint Soviet-French p 247 A93-35207 space mission Data bank establishment principles as applied to the

problem of physiological norms in space medicine p 249 A93-35234 Main medical results of extended flights on Space p 386 A93-52401 Station Mir in 1986-1990

GRIGOREAS. C. Allergic and nonallergic rhinitis in Greek pilots

p 21 N93-11317

GRIGOROVA, V. The character of spontaneous oculomotor activity in

weightlessness and during readaptation p 248 A93-35219

GRIGSBY, DORIS K. Final results of space exposed experiment developed p 329 N93-29702 for students

GRILL, L. Eve-head-arm coordination and spinal reflexes in p 236 N93-24362 weightlessness

GRIMM, K. Technology test results from an intelligent, free-flying robot for crew and equipment retrieval in space p 184 A93-27037

GRIMM, K. A. An experiment in vision based autonomous grasping within a reduced gravity environment

p 193 A93-29137

GRINDELAND, R. E.

The pituitary - Aging and spaceflown rats p 79 A93-20661

GRINER, C. S.

Space Station Freedom payload operations in the 21st p 350 A93-45436 century

GRINER, T. A.

Specific absorption rate and radiofrequency current-to-ground in human models exposed to near-field p 360 A93-47098 irradiation GRINIASTY, M.

Conversion of temporal correlations between stimuli to spatial correlations between attractors

[PREPRINT-856] p 96 N93-16962

GRINSTEAD, RANDY S. Comparative evaluation of a monocular head mounted display device versus a flat screen display device in presenting aircraft maintenance technical data

AD-A2596841 GRINSTEIN, GEORGES G.

Intelligent virtual interfaces for telerobotics p 193 A93-29136

GRISHCHENKO, A. V.

p 234 N93-23660

Changes in the central hemodynamics under antiorthostasis in humans with different blood circulation types and physical training levels p 359 A93-46967

Effects of maglev-spectrum magnetic field exposure on CEM T-lymphoblastoid human cell growth and differentiation

IDF92-0411341 GROSENBACH, MILTON J.

p 96 N93-16552

Field test of a computer-driven tool to measure psychological characteristics of aircrew p 341 N93-30425 [AD-A264484]

B-23

GROSS, ANTHONY R.

Human support for Mars exploration - Issues and p 27 A93-12077 approaches

GROSSBERG, STEPHEN

The cognitive, perceptual, and neural bases of skilled performance

AD-A258236 GROSZ, J.

p 130 N93-17820

What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment

[AIAA PAPER 93-3561] p 406 A93-52661 GROVE, C. M.

Evaluation of test methods and requirements for

respiratory protection systems 21 IAD-A2624661

p 317 N93-28757

GROVES, BERTRON M. Minimal hypoxic pulmonary hypertension in normal Tibetans at 3,658 m p 280 A93-41121

GROWDON, J. H.

A balanced carbohydrate: protein diet in the management of Parkinson's disease p 153, A93-27918

GRUBB MONTY G

Selective factors affecting rotary wing aviator performance with symbology superimposed on night vision

[AD-A254983]

p 35 N93-12508

GRUMSTRUP-SCOTT, JUDITH

Body composition and physical performance [AD-A255627] p 69 N

p 69 N93-14161 GŘUNWALD, ARTHUR J. Visual display aid for orbital maneuvering - Design considerations

p 135 A93-23518 Visual display aid for orbital maneuvering - Experimental evaluation p 136 A93-23519 Exocentric judgements in real environments and

stereoscopic displays p 189 A93-27190 Flight-path estimation in passive low-altitude flight by visual cues p 223 A93-32004

Operator-assisted planning and execution of proximity operations subject to operational constraints p 194 N93-21436

Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays

p 311 N93-27177

GRUTZMACHER, W.

The influence of military low-altitude flight noise on the inner ear of the guinea pig. I - Hearing threshold measurements p 377 A93-49555

GU. DINGLIANG Skin temperature and heat flow of head-neck region under different ambient temperatures p 46 A93-16074

GUARDIANI, FRANK The relationship between environmental conditions and

UH-60 cockpit temperature [AD-A2559181 p 69 N93-14090

Effects of microclimate cooling on physiology and performance while flying the UH-60 helicopter simulator in NBC conditions in a controlled heat environment p 129 N93-20400 [AD-A258502]

Effects on physiology and performance of wearing the aviator NBC ensemble while flying the UH-60 helicopter flight simulator in a controlled heat environment p 235 N93-23995 [AD-A259909]

The role of serotonin and histamine in increasing the resistance of the organism to certain extreme conditions p 324 A93-43034

GUCCIONE, S. J., JR.

A new instrumentation system for measuring the dynamic response of the human head/neck during impact acceleration p 143 N93-19672

GUCKENBERGER, DUTCH

Training high performance skills using above real-time training [NASA-CR-192616]

p 225 N93-24192

GUEDRY, F. E.

Medical evaluation of spatial disorientation mishaps p 134 N93-19703

GUELL, A.

Evaluation of spontaneous baroreflex response after 28 days head down tilt bedrest p 386 A93-52404

GUELL. ANTONIO

Effects of acute exercise on attenuated vagal baroreflex function during bed rest p 48 A93-16160 Balance and gait analysis after 30 days -6 deg bed rest

 Influence of lower-body negative-pressure session p 48 A93-16161

GUERRA, EMMA

p 16 N93-11293 Silent HIV infection

GUERRERO, F.

T wave changes in humans and dogs during p 92 A93-20026 experimental dives

GUEZENNEC, C. Y.

Protein requirements in hypoxia or hypokinesia

p 368 N93-32244

GUEZENNEC, CHARLES Y.

Myosin and troponin changes in rat soleus muscle after hindlimb suspension p 273 A93-41124

GUGERTY, LEO

Using GOMS models and hypertext to create representations of medical procedures for online display p 188 A93-27170

GUIDE, PATRICK C.

An analytical study of the effects of age and experience p 176 A93-27158 on flight safety

GUIGNARD J C

The accelerative stimulus for motion sickness p 410 A93-55938

GUIGUET, M.

Clinical and diagnostic requirements - Biochemical exploration of amino acid metabolism, tRNA turnover and p 49 A93-17442 lymphocyte activation GUIKEMA, J. A.

Cytokine secretion by immune cells in space

p 153 A93-28694 GUILLAUME, F.

Chronobiology in a moon-based chemical analysis and p 48 A93-17439 physiologic monitoring laboratory GUIMARAES, KATIA

Architecture of autonomous systems

p 266 N93-26047 INASA-CR-1929741 GUISADO, R.

Cortical localization of cognitive function by regression of performance on event-related potentials

p 9 A93-10337

GUIZARD, C.

Design and preliminary testing of a membrane based water recycling system for European manned space

ISAE PAPER 9213961 p 309 A93-41553

GULLI CH

G-load effects and efficient acoustic parameters to p 146 N93-19775 robust speaker recognition

GULLINGHAM, KENT K. Incidence of cardiac dysrhythmias occurring during centrifuge training p 384 A93-52297

GUNDERMAN, RONALD G.

Helmet-mounted systems test and evaluation process p 227 A93-30053

GUNGA, HANS C.

Effects of 28-day isolation (ESA-ISEMSI'90) on blood pressure and blood volume regulating hormones p 251 A93-35495

GUPTA, ASHOK

Ultraviolet disinfection technology assessment

p 64 N93-12983

[PB92-222868] GUPTA, PRAHLAD

Connectionist models and linguistic theory: Investigations of stress systems in language p 364 N93-32064 IAD-A2654501

GUREVICH, S. M.

Changes in the intensity of free-radical reactions in the organs of rats under hypokinetic stress, protected by the delta-sleep-inducing peptide and its tyrosine-containing p 378 A93-51101 analoque

GUSTAVINO, S.

Tests characterizing bioprocessor hardware for analytical modeling [SAE PAPER 921357] p 307 A93-41516

GÙTIERREZ, DAVID J.

An analysis of human performance in simulated p 347 A93-42173 partial-gravity environments

GUTKOWSKA, J. Immunocytochemical localization of atrial natriuretic factor (ANF)-like peptides in the brain and heart of the treefrog Hyla japonica - Effect of weightlessness on the distribution of immunoreactive neurons and cardiocytes

GUY, HAROLD J. B.

Pulmonary diffusing capacity, capillary blood volume, and cardiac output during sustained microgravity p 386 A93-52617

p 377 A93-49561

H

HAAKANSSON, S.

Plasmid encoded virulence of Yersinia FOA-B-40419-4.41 p 275 N93-28199

HAAS, CHARLES N.

Development of novel models for describing multiple toxicity effects

p 336 N93-30422 [AD-A264439]

HAAS, G.

Effect of head-down bedrest on blood/plasma density after intravenous fluid load p 163 A93-28687

HABERCOM, MARK

Determination of organic carbon and ionic accountability of various waste and product waters derived from ECLSS water recovery tests and Spacelab humidity condensate p 303 A93-41475 [SAE PAPER 921313]

HACKETT, PETER

Cerebral blood flow - Comparison of ground-based and spaceflight data and correlation with space adaptation p 87 A93-17553 syndrome

HACKETT, PETER H.

Nifedipine for treatment of high altitude pulmonary edema

AD-A256959 HADDAD, ALBERT G., SR.

Emergence of telerobotic control enhancement from

p 95 N93-16187

p 183 A93-27028

research in machine autonomy HADDAD, S. G.

Challenges of space medical operations and life p 155 A93-28716 sciences management

HAEDER, DONAT-P.

Swimming behavior of the unicellular flagellate, Euglena gracilis, in simulated and real microgravity

p 151 A93-26549

HAFELE, BERNARD

Development of the carbon dioxide removal system blower used on Space Station Freedom ISAE PAPER 921188 p 294 A93-41367

HAHLER, BETH

CREWCUT - A tool for modeling the effects of high p 178 A93-27180 vorkload on human performance HAHN, EDWARD

Hazard alerting and situational awareness in advanced p 61 A93-14377 air transport cockpits

HAHN, THEODORE J.

Cellular immunosenescence - An overview

p 80 A93-20663 HAIDAR, R.

Occupant kinematics simulation of the Kegworth air p 142 N93-19662 accident

HAJARE, ANKUR R. Networked simulation for team training of Space Station astronauts, ground controllers, and scientists - A training p 179 A93-27188 and development environment

Chronobiology in a moon-based chemical analysis and p 48 A93-17439

physiologic monitoring laboratory HALBERG, F. Chronobiology in a moon-based chemical analysis and

physiologic monitoring laboratory p 48 A93-17439 HALBERG, F. E. Chronobiology in a moon-based chemical analysis and

physiologic monitoring laboratory HALÉ, JOŠEPH P.

Man-systems integration and man-machine the p 313 N93-27795 HALEY, PATRICK J.

p 104 A93-20779 Beryllium toxicity - An update HALGREN, SHANNON

Using GOMS models and hypertext to create representations of medical procedures for online display p 188 A93-27170

HALL, ALAN J.

Mineral theories of the origin of life and an iron sulfide p 74 A93-18009 example HALL, C. R.

Environmental monitoring and research at the John F. p 154 A93-28714 Kennedy Space Center

Radiation physics, biophysics, and radiation biology IDE92-0136731 p 6 N93-12266

HALL, J. R. The design and development of the new RAF standard **HUD** format p 318 N93-28856

The environmental control and life-support system for a lunar base: What drives its design p 66 N93-13991

HALL, JOSEPH W.

Auditory spectro-temporal pattern analysis [AD-A264691] p 361 N93-31981

HALL, LAWRENCE O.

A comparison of neural network and fuzzy clustering techniques in segmenting magnetic resonance images of p 214 A93-31267 the brain

HALL PRESTON S. Helmet-mounted systems technology planning for the p 227 A93-30052

fiture HALSTEAD, THORA W.

Clinostats and centrifuges: Their use, value, and limitations in gravitational biological research; Symposium, Washington, Oct. 19, 1991, Report p 375 A93-49206 HALTERMAN, KAREN

Safety issues of manipulator systems under computer control p 192 A93-29121

HAMALAINEN, OLAVI

Flight helmet weight, $+\mbox{Gz}$ forces, and neck muscle p 136 A93-24046 Determinants of +Gz-related neck pain - A preliminary survey p 380 A93-49227

Degeneration of cervical intervertebral disks in fighter pilots frequently exposed to high +Gz forces

p 384 A93-52298

PERSONAL AUTHOR INDEX **HECHT. HEIKO**

HAMAMI, HIDEAKI

A trade study method for determining the design parameter of CELSS subsystems

[SAE PAPER 921198] p 295 A93-41374

HAMANO, NOBUO

Experimental and theoretical study on membrane

distillation using thermopervaporation p 309 A93-41554 |SAE PAPER 921397|

HAMBRIGHT, R. N.

Space biology initiative program definition review. Trade study 1: Automation costs versus crew utilization

p 208 N93-23070

p 35 N93-12508

p 63 N93-12545

HAMILTON, DAVID B.

Operator workload predictions for the revised AH-64A workload prediction model, volume 1

[AD-A254198] p 30 N93-10261 Selective factors affecting rotary wing aviator performance with symbology superimposed on night vision

goggles [AD-A254983]

Operator workload predictions for the revised AH-64A workload prediction model. Volume 2: Appendixes A through H

[AD-A254939]

The effects of superimposing symbology on a simulated night vision goggle display

[AD-A263458] p 354 N93-30590

HAMILTON, K.

Subjective and behavioral effects associated with repeated exposure to narcosis p 7 A93-10327

Longitudinal study of astronaut health - Mortality in the years 1959-1991 p 216 A93-32783

HAMMER, JOHN M.

Modeling the dynamics of mental workload and human performance in complex systems AD-A258553] p 135 N93-19956

HAMMON, COLIN P.

Relating flying hours to aircrew performance: Evidence for attack and transport missions

p 25 N93-10719 [AD-A2539881

HAMMOND, MICHAEL

Effects of hypoxemia at sea level and high altitude on sodium excretion and hormonal levels p 8 A93-10332 HAMSTRA, S. J.

Shape discrimination and the judgement of perfect symmetry - Dissociation of shape from size

p 224 A93-32788

HANCHIN, F.

Differential effects of long-term hypoxia on norepinephrine turnover in brain stem cell groups

p 78 A93-20030

HANEY, L. N.

Crucial role of detailed function, task, timeline, link, and human vulnerability analyses in HRA [DE93-001923] p 321 N93-28942

HÀNNON, PATRÍCK R.

Effects of early bright, late bright and dim illumination upon circadian neuroendocrine, electrophysiological and behavioral responses [AD-A254129]

, p 13 N93-10661 HANSEN, JESPER M.

Effects of acute hypoxia on renal and endocrine function at rest and during graded exercise in hydrated subjects p 93 A93-20035

Renal hemodynamics, tubular function, and response to low-dose dopamine during acute hypoxia in humans p 332 A93-44180

HANSMAN, R. J.

Hazard alerting and situational awareness in advanced air transport cockpits p 61 A93-14377

HANSMAN, R. J., JR.

An exploratory study of plan-view terrain displays for air carrier operations p 289 A93-39573 HANSSON, P. A.

To the stars with the cytoskeleton? p 1 A93-11198

HAO, WEI-WEI

Effect of acute hypoxia exposures on plasma endothelin p 199 A93-30442

HAQUE, A.

Bioregenerative life support as self-sustaining ecosystem in space p 231 A93-32073

HARA, HIDEKI

Influence of viscous resistance on heart rate and oxygen uptake during treadmill walking in water

p 94 A93-20898

HARADA, KAZUO

In vitro selection of optimal DNA substrates for T4 RNA p 329 A93-44939 ligase Unexpected substrate specificity of T4 DNA ligase revealed by in vitro selection HARDMAN, P. p 397 A93-52878

Localization of extracellular matrix components in developing mouse salivary glands by confocal microscopy p 155 A93-28725

Alterations in biosynthetic accumulation of collagen types I and III during growth and morphogenesis of embryonic mouse salivary glands p 156 A93-28746 HARDY, ALVA C.

Radiological assessment for Space Station Freedom [NASA-TM-104758] p 128 N93-20303

HARGENS, A. R.

Direct measurement of capillary blood pressure in the human lip p 279 A93-40550 Intramuscular pressure and electromyography as indexes of force during isokinetic exercise

p 380 A93-49291

p 403 A93-55939

Cerebral blood flow velocity in humans exposed to 24 of head-down tilt p 381 A93-49295 h of head-down tilt

HARGENS, ALAN R.

Role of atrial natriuretic peptide in systemic responses a acute isotonic volume expansion p 44 A93-14968 to acute isotonic volume expansion Transcapillary fluid responses to lower body negative p 380 A93-49292 pressure

HARM, DEBORAH L.

Changes in the dark focus of accommodation associated with simulator sickness p 379 A93-49222 Mental rotation - A key to mitigation of motion sickness in the virtual environments? p 387 A93-49404 Physiology of motion sickness symptoms

HARMA, M.

The prediction of the adaptation of circadian rhythms to rapid time zone changes p 278 A93-39714 HARPER FLVIN

Wound healing and connective tissue metabolism: The

role of hyperbaric oxygen therapy n 285 N93-28759

HARPER, LYNN Exobiology: The NASA program p 114 N93-18561 HARPER, LYNN D.

Human support for Mars exploration - Issues and p 27 A93-12077

approaches HARRIS, B. A.

Program development for exercise countermeasures [SAE PAPER 921140] p 292 A93-41327 p 292 A93-41327

HARRIS, DON

The effect of low blood alcohol levels on pilot performance in a series of simulated approach and landing trials p 179 A93-27453

HARRIS, JEFFREY

Dust protection for environmental control and life support systems in the lunar environment p 315 N93-27979 HARRIS, JOHN C.

Automatic detection of seizures with applications p 254 N93-25592

HARRIS, REGINA M.

Age 60 Project: Consolidated database experiments
p 314 N93-27851

HARRIS, ROBERT T.

Mapping of electrical muscle stimulation using MRI p 279 A93-40549

HART, JOAN M.

Portable life support system regenerative carbon dioxide and water vapor removal by metal oxide absorbents preprototype hardware development and testing [SAE PAPER 921299] p 303 A93-41464

HARTMAN, HYMAN Carbonaceous chondrites and the origin of life

p 412 A93-55997

p 408 A93-53120

HARTSOCK, DAVID C. Target designation in a perspective view, 3-D map using a joystick, hand tracker, or voice p 186 A93-27145

3-D target designation using two control devices and

an aiding technique HARTUNG, G. H.

Prediction of maximal oxygen uptake from submaximal

exercise testing in aerobically fit and nonfit men p 385 A93-52304

HARWOOD, CAROLINE S.

Molecular biology of anaerobic aromatic biodegradation [AD-A255213] p 42 N93-13863

HASEGAWA, PAUL M.
Biomass productivity and sustainability of a bioregenerative life-support system
[SAE PAPER 921359] p 307 A93-41518

HASEGAWA, S.

Neuropharmacology of motion sickness and emesis p 271 A93-39711 A review

HASKELL, IAN

S-R compatibility effects with orthogonal stimulus and p 179 A93-27194 response dimensions

HASSOUN, JOHN A.

KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation p 30 N93-10713 IAD-A2539311 Attitude awareness enhancements for the F-16 head-up

display [AD-A260280] p 236 N93-24168 HATFALUDY, S.

Mechanically induced alterations in cultured skeletal muscle growth p 202 A93-32749

HATHER, B. M.

Skeletal muscle responses to unloading with special derence to man p 166 A93-28718 reference to man

HAUGSET, KJELL

Man-machine interface issues for space nuclear power systems p 60 A93-13907

HAULE, D. D.

Teleprogramming a cooperative space robotic workcell for Space Station p 190 A93-29109 HAUSDORFF, J. M.

Long-range anticorrelations and non-Gaussian behavior of the heartbeat p 161 A93-28049 p 161 A93-28049

HAUSER, GERHARD

Hermes ECLSS - Main requirements and technical solutions

[SAE PAPER 921400]

p-309 A93-41555

p 66 N93-13992

p 410 A93-55469

p 149 N93-20319

HAUSER, U. E.

Study of SCN neurochemistry using in vivo microdialysis in the conscious brain: Correlation with circadian activity rhythms

p 217 N93-23459 [AD-A259803] HAVLIN, S.

Long-range anticorrelations and non-Gaussian behavior of the heartbeat p 161 A93-28049 p 161 A93-28049

HAWES, PHILIP B.

Life systems for a lunar base HAWORTH, LORAN A. Helmet Mounted Display symbology integration p 263 A93-35914

HAYAMIZU, SAYOKO Modification of water and electrolyte metabolism during

head-down tilting by hypoglycemia in men p 92 A93-20029

HAYASHI, HIROMU

On the reaction of 2-aminopropionitrile in aqueous nedia p 354 A93-43791 media

HAYASHI, YOSHITAKA Modification of water and electrolyte metabolism during

head-down tilting by hypoglycemia in men

p 92 A93-20029 HAYATI SAMAD

An operator interface design for a telerobotic inspection system

[AIAA PAPER 93-1160] p 231 A93-31034 Remote surface inspection system

HAYES, BENITA C.

Bright light delivery system [NASA-CASE-MFS-28723-1] p 96 N93-17058

HAYES, DANIEL

Separation of rat pituitary secretory granules by ontinuous flow electrophoresis p 329 A93-44933 continuous flow electrophoresis HAYES, J. C.

Program development for exercise countermeasures
[SAE PAPER 921140] p 292 A93-41327

HAYES, JUDITH C.

Physiological responses to wearing the space shuttle launch and entry suit and the prototype advanced crew escape suit compared to the unsuited condition [NASA-TP-3297] p 149 N

HE. DENGYAN

Human factors in design of military aircrafts' oxygen supply equipment **HE, H. S.** p 60 A93-14222

The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319

Structure of a human monoclonal antibody Fab fragment

against gp41 of human immunodeficiency virus type p 153 A93-28698

HE, XIAO M.

Atomic structure and chemistry of human serum 'p 200 A93-31628 Structure of a human monoclonal antibody Fab fragment against gp41 of human immunodeficiency virus type 1

p 203 A93-32850 HEAD, A. T. Multi-function visor p 146 N93-19770

HEATHCOTE, DAVID G. Investigation of wheat coleoptile response to phototropic stimulations

p 114 N93-18608 [NASA-CR-192157] A proposal to determine properties of the gravitropic response of plants in the absence of a complicating g-force

(GTHRES) [NASA-CR-192219] p 114 N93-19377

HECHT, H.

Influence of animation on dynamical judgments p 180 A93-28692

HECHT, HEIKO

Influence of animation on dynamical judgments p 98 A93-20275

HEEGER, D. J. PERSONAL AUTHOR INDEX

p 193 A93-29137

p 182 A93-27003

p 230 A93-30455

p 294 A93-41344

p 322 N93-29340

p 144 N93-19761

p 290 A93-41313

p 306 A93-41510

p 106 N93-17444

p 56 A93-16152

p 64 N93-12860

p 220 N93-24363

p 401 A93-55165

p 73 A93-17823

p 366 N93-32012

p 32 N93-11930

p 162 A93-28682

p 162 A93-28683

p 104 N93-16033

p 162 A93-28681

p 163 A93-28686

p 314 N93-27851

p 158 N93-20959

p 163 A93-28687

p 255 N93-26133

p 154 A93-28714

HINGHOFER-SZALKAY, H.

after intravenous fluid load

men at rest and exercise

Kennedy Space Center

[NASA-TM-103942]

HINKLE, C. R.

Effect of head-down bedrest on blood/plasma density

Vascular uptake of rehydration fluids in hypohydrated

Environmental monitoring and research at the John F.

HEEGER. D. J. HENNION, P. Y. HETZER MARTIN Normalization of cell responses in cat striate cortex Group II intron RNA catalysis of progressive nucleotide An assessment of the deflecting effect on human insertion - A model for RNA editing p 398 A93-55292 p 154 A93-28700 movement due to the Coriolis inertial forces in a space p 170 A93-28758 Half-squaring in responses of cat striate cells HEWGILL I vahicla p 157 A93-28748 An experiment in vision based autonomous grasping HENRIKSEN, ERIK J. HEEMSKERK, C. J. M. within a reduced gravity environment Spaceflight on STS-48 and earth-based unweighting HERA - A reliable and safe space robot produce similar effects on skeletal muscle of young rats p 263 A93-35571 HEWITT, DENNIS R. p 326 A93-44179 HEER. M. Characteristics and requirements of robotic manipulators Effect of insulin-like factors on glucose transport activity Effects of head-down tilt and saline loading on body for space operations p 399 A93-55458 in unweighted rat skeletal muscle weight, fluid, and electrolyte homeostasis in man HEWITT, TIGER HER. MING-GUO p 163 A93-28685 Factors that affect depth perception in stereoscopic Design, construction, and control of a two The effects of a 10-day period of head-down tilt on the degree-of-freedom electric direct-drive human power HEYING, MONTY cardiovascular responses to intravenous saline loading p 65 N93-13486 amplifier Development of membrane gas removal technology for p 163 A93-28686 HERBERT, FRANK J. Diuresis and natriuresis following isotonic saline infusion microgravity liquid flow systems [SAE PAPER 921162] Space biology initiative program definition review. Trade in healthy young volunteers before, during, and after HDT p 163 A93-28688 study 4: Design modularity and commonality HEZEL, PAUL J. p 208 N93-23071 HEGER, A. S. Head mounted displays for virtual reality Space biology initiative program definition review. Trade Treatment of human-computer interface in a decision [AD-A263498] study 3: Hardware miniaturization versus cost support system HICKS, MARK p 208 N93-23080 I DE93-002281 I Aircrew acceptance of automation in the cockpit p 237 N93-24502 HERMIDA, J. S. HEGERL. REINER Microgravity and orthostatic intolerance - Carotid Structure of a molecular chaperone from a thermophilic HIGHTOWER, T. M. Recycling and source reduction for long duration space archaebacterium p 151 A93-25821 hemodynamics and peripheral responses HEIDMANN, JEAN p 278 A93-39716 habitation SETI in Europe n 237 N93-23908 HERNANDEZ, O. [SAE PAPER 921121] HEILMAN, CRAIG A. A linear, time-varying simulation of the respiratory tract Water reclamation technology development for future long range missions X Ray System, Lightweight Medical (XRSLM) system p 123 N93-18295 [SAE PAPER 921351] IDE93-0045151 p 218 N93-24009 HEISING, SILKE HERNING, R. I. HIJAZI, YOUSEF Prefabricated foldable lunar base modular systems for Ferrous iron oxidation by anoxygenic phototrophic The OMPAT level 1 Neurophysiological Performance p 271 A93-39280 habitats, offices, and laboratories Assessment Battery: NPPAB HEITMEYER, CONSTANCE L. HILAND, D. A. Success rate analysis of Navy SERGRAD Flight Direct manipulation and intermittent automation in HERRICK, ROBERT E. advanced cockpits Activity-induced regulation of myosin isoform distribution HILBURŇ, BRIAN IAD-A2538141 p.32 N93-11784 Comparison of two contractile activity program **HEJNOWICZ, ZYGMUNT** p 326 A93-44183 Adaptive automation and human performance. 3: Effects How well does the clinostat mimic the effect of of practice on the benefits and costs of automation Interaction of various mechanical activity models in microgravity on plant cells and organs? regulation of myosin heavy chain isoform expression shifts p 376 A93-49213 (AD-A2543811 p 327 A93-44184 HELDMANN, MICHAEL J.

Space Station Water Processor - Current flight design HILDEBRAND, F. HERRMANN, CAL C. High-recovery low-pressure reverse osmosis |SAE PAPER 921353| p 306 A Development and implementation of the MotoMir [SAE PAPER 921112] p 289 A93-41306 p 306 A93-41512 experiment on the Mir Space Station HELEN, C. HERRY, JEAN P. Investigation of fluid-electrolyte metabolism and its HILDEBRANDT, WULF Energy expenditure climbing Mt. Everest Higher capillary filtration rate in the calves of hormonal regulation during the second joint Soviet-French p 92 A93-20031 p 247 A93-35207 space mission endurance-trained subjects during orthostatic stress HERTEN, M. HELLE, C. Training concept for crew, end user, and ground centre Changes in food and energy intake in military aircrepersonnel in the Columbus utilisation programme HILL, R. D. p 226 N93-24382 p 368 N93-32246 An efficient lightning energy source on the early earth HELLER, LEON F. HERTZOG, CHRISTOPHER K. Helmet slippage during visual tracking - The effect of Automatic information processing and high performance HILL, SUSAN G. Application and validation of workload assessment p 389 A93-49223 voluntary head movements skills: Individual differences and mechanisms of performance improvement in search-detection and IAD-A2645751 Equipment, more or less ready to be used in complex tasks p 148 N93-19785 helicopters LAD-A2577111 p 100 N93-17684 Intelligent fault management for the Space Station active HELTON, K. T. HESLEGRAVE, R. The unique contribution of selected personality tests to Subjective and behavioral effects associated with thermal control system the prediction of success in naval pilot training HILLBRECHT, A. repeated exposure to narcosis p 7 A93-10327 IAD-A2581441 p 132 N93-18291 Pulmonary responses to lower body negative pressure HESLEGRAVE, RONALD J. HELTON, KATHLEEN T. and fluid loading during head-down tilt bedrest Selection of personnel for stressful occupations: The The five-factor personality model and naval aviation potential utility of psychophysiological measures as candidates Cardiopulmonary function during 10 days of head-down IAD-A2602271 p 225 N93-24319 tilt bedrest IAD-A2645711 p 363 N93-32011 HEMMERSBACH-KRAUSE, RUTH HILLE HARALD K HESS. C. Measurement and evaluation of blast overpressure Swimming behavior of the unicellular flagellate, Euglena Technology test results from an intelligent, free-flying during F-15A crew station vulnerability assessment test gracilis, in simulated and real microgravity robot for crew and equipment retrieval in space p 151 A93-26549 IAD-A257152] p 184 A93-27037 HENDERSON, A. S. HILLEBRECHT, A.

Cardiovascular response to lower body negative HESS, ELIZABETH Gene transcription and electromagnetic fields Publications of the Space Physiology and p 276 N93-28848 [DE93-010854] Countermeasures Program, Neuroscience Discipline: ressure before, during, and after ten days head-down HÈNDRIX, C. W. 1980-1990 tilt bedrest Early markers of HIV infection and subclinical disease [NASA-CR-4476] p 55 N93-15583 The effects of a 10-day period of head-down tilt on the p 17 N93-11296 Physiology and Publications of the Space cardiovascular responses to intravenous saline loading HENDRIX, CRAIG W. Countermeasures Program, Cardiopulmonary Discipline: Estimates of Human Immunodeficiency Virus (HIV) 1980-1990 HILLMAN, D. C. p 123 N93-18376 incidence and trends in the US Air Force [NASA-CR-4475] Chronobiology in a moon-based chemical analysis and physiologic monitoring laboratory p 48 A93-17439 HESS, JOHN R. HENLEY, C. Systemic and pulmonary hypertension after resuscitation HILLMAN, DONALD J. Salivary total protein and experimental Coriolis with cell-free hemoglobin Age 60 Project: Consolidated database experiments p 383 A93-49573 [AD-A258185] p 120 N93-17900 IHS-TR-8025-3C(R2)] HENNET, REMY J.-C. HILPERT, REINHOLD Hydrothermal systems - Their varieties, dynamics, and Incorporating display limitations in a model-based analysis of flight simulator fidelity p 73 A93-18002 p 74 A93-18010 Biochemically active layers for selective material suitability for prebiotic chemistry detection sensors p 137 A93-24923 Future research LAIAA PAPER 93-08591 [MBB-Z-0440-92-PUB] HENNINGER, D. L. HETTINGER, LAWRENCE J.

Changes in the dark focus of accommodation associated

Profile analysis of simulator sickness symptoms -

Application to virtual environment systems

Motion and human performance

Virtually induced motion sickness

p 379 A93-49222

p 381

p 381

p 403

p 406

A93-49399

A93-49401

A93-55944

A93-55949

with simulator sickness

Simulator sickness

environments

B-26

HENNINGER, DONALD H.

[SAE PAPER 921271]

HENNINGER, DONALD L

Active synthetic soil
[NASA-CASE-MSC-21954-1-NP]

Utilization of on-site resources for Regenerative Life

Support Systems at a lunar outpost p 346 A93-42124

An assessment of waste processing/resource recovery technologies for lunar/Mars life applications

p 300 A93-41441

p 114 N93-19054

HINMAN, ELAINE

Physical and digital simulations for IVA robotics p 391 A93-49445

HINMAN, ELAINE M.

Microgravity (light testing of a laboratory robot

IAAS PAPER 91-0351 p 62 A93-15583

Development of a test protocol for evaluating EVA glove performance

|SAE PAPER 921254| HINSDALE, LLOYD

D 298 A93-41424

The development and testing of a volatile organics concentrator for use in monitoring Space Station water

ISAE PAPER 9212661

p 300 A93-41436

HIRAL ATSUO

Effect of food intake on skin vasomotor responses to head-up tilt in humans p 379 A93-49180

Research and development of sensing and manipulation techniques for space robotics on a testbed [AIAA PAPER 93-0794] p 136 p 136 A93-24873

HIROSE, MICHITAKA

Human behavior in virtual environments

p 233 A93-33447

HIROTA, KOUICHI

Human behavior in virtual environments

p 233 A93-33447

HIRSCH, EDWARD

The effects of an antijet lag diet p 370 N93-32263

HITCHCOCK, EDWARD

Reclined seating in advanced crewstations - Human performance considerations p 186 A93-27151

HITCHENS, G. D.

Water purification, microbiological control, sterilization and organic waste decomposition using an electrochemical advanced ozonation process

|SAE PAPER 921234| p 297 A93-41408 Post-treatment of reclaimed waste water based on an

electrochemical advanced oxidation process [SAE PAPER 921275] p 301 A93-41444

HJELDE, ASTRID

Variability over time of complement activation induced by air bubbles in human and rabbit sera

p 323 A93-42190

HOBBS, JERRY R.

Interpretation as abduction

[AD-A259608] p 225 N93-24227

HOCHELLA, MICHAEL F., JR.

Formation of reduced carbonaceous matter in basalts and xenoliths - Reaction of C-O-H gases on olivine crack p 411 A93-53286

HOCHSTEIN, LAWRENCE I. Purification and properties of an ATPase from Sulfolobus solfataricus p 201 A93-32115 Nucleotide-protectable labeling of sulfhydryl groups in subunit I of the ATPase from Halobacterium saccharovorum p 201 A93-32116 Comparison of membrane ATPases from extreme

halophiles isolated from ancient salt deposits p 243 A93-36557

HODGE, KEVIN A.

Automatic information processing and high performance Individual differences and mechanisms of performance improvement in search-detection and complex tasks

IAD-A257711 p 100 N93-17684

HODGES, THOMAS K.

Biomass productivity and sustainability of a bioregenerative life-support system p 307 A93-41518

|SAE PAPER 921359|

Design and evaluation of a payload to support plant growth onboard COMET 1 p 308 A93-41547

| SAE PAPER 921389 |

HOETGER, DEBORA SHARC: Space Habitat, Assembly and Repair Center

[NASA-CR-192031] p 140 N93-18153

HOFACRE, K. C.

Evaluation and optimization of a flexible filtration system. for respiratory protection system 21

IAD-A2624671 p 284 N93-28758

HÖFF, WILLIAM

Accuracy of locating circular features using machine p 182 A93-27022 vision

HOFFLER, G. W.

Cardiovascular physiology - Effects of microgravity

p 166 A93-28719

HOFFMANN, ANGELIKA

Structure of a molecular chaperone from a thermophilic archaebacterium p 151 A93-25821

HOFMEISTER, STEPHEN

Functional and structural adaptation of the yak pulmonary circulation to residence at high altitude p 326 A93-44181 HOGAN, MICHAEL C.

HOKARI, MASAOMI

Increased plasma O2 solubility improves O2 uptake of in situ dog muscle working maximally

p 111 A93-21684

p 222 A93-30277

Mortality experience of cockpit crewmembers from Japan Airlines p 385 A93-52306

HOLDEN, TINA

The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN)

HOLDER, DONALD W., JR.
Phase III Integrated Water Recovery Testing at MSFC Closed hygiene and potable loop test results and lesson learned

|SAE PAPER 921117| p 290 A93-41309

HOLLAND, A. W.

Results of a structured psychiatric interview to evaluate NASA astronaut candidates p 223 A93-32780 p 223 A93-32780 HOLLAND, ALBERT W.

Multicultural factors in the space environment - Results of an international shuttle crew debrief

HOLLAND, PETER J.

Recovering potable water from wastewater in space platforms by lyophilization

p 304 A93-41485 ISAE PAPER 9213231 Extraction of potable water from urine for space p 345 A93-42121 applications

HOLLARS, MICHAEL G.

Space telerobotic research and applications at Space Systems/Loral

IAAS PAPER 91-046

p 62 A93-15588 HOLLEVOET, FERNAND

The use of voice processing for some aspects of the pilot-vehicle-interface in an aircraft p 146 N93-19772

HOLLEY, PETER J. Cognitive predictors of vigilance HOLLMANN, W. p 287 A93-40771

Effects of simulated microgravity (HDT) on blood fluidity p 44 A93-14972

HOLLOWAY, H. C. Crew factors

p 57 A93-17431 HOLLOWAY, HARRY C. Supporting human exploration in space - Biomedical research p 48 A93-17428

Remote medical systems for the human exploration of

IAAS PAPER 91-321 p 401 A93-54309

HOLLY, F. F.

System for generating dynamic video imagery for human factors research

AD-A248675] p 31 N93-11743 HOLM, NILS G.

Why are hydrothermal systems proposed as plausible p 73 A93-18001 environments for the origin of life? Hydrothermal systems - Their varieties, dynamics, and suitability for prebiotic chemistry p 73 A93-18002 p 74 A93-18010 Future research The binding and reactions of nucleotides and polynucleotides on iron oxide hydroxide polymorphs p 325 A93-43795

HOLT, ROBERT W.

Behavioral validation of a hazardous thought pattern instrument p 176 A93-27142 HOLY, X.

Functional adaptation of different rat skeletal muscles to weightlessness p 377 A93-49575

HOLZMUELLER, G.

Eye-head-arm coordination and spinal reflexes in p 236 N93-24362

HONDA, HAJIME

Catalytic accretion of thermal heterocomplex molecules from amino acids in aqueous milieu p 354 A93-43793 HOOKE, A. M.

Studies of safety, infectivity, and immunogenicity of a new Temperature Sensitive (TS) 51-1 strain of S. typhi as a new live oral typhoid fever vaccine candidate

p 19 N93-11306

HOOVER, MARK D.

Potential health risks from postulated accidents involving the Pu-238 RTG on the Ulysses solar exploration Beryllium toxicity - An update p 104 A93-20779

HOPE, ARVID

Effects of 28-day isolation (ESA-ISEMSI'90) on blood pressure and blood volume regulating hormones p 251 A93-35495

HOPKINS, D. A.

Optimal design of composite hip implants using NASA p 174 N93-22188 technology

HOPKINS, WILLIAM D.

Behavioral asymmetries of psychomotor performance in rhesus monkeys (Macaca mulatta) - A dissociation between hand preference and skill p 339 A93-44923 HOPPER, DARREL G.

n 145 N93-19765 Panoramic cockpit displays

HOPPER, PHILLIP L.

Measuring hearing protection device performance using the metrosonics db-3100 sound level analyzer (dosimeter) [AD-A260852] p 265 N93-25787

HOPSON, MARGARET

Effects of early bright, late bright and dim illumination upon circadian neuroendocrine, electrophysiological and p 13 N93-10661

IAD-A2541291 HORDINSKY, JERRY R.

The identification and quantitation of triamterene in blood and urine from a fatal aircraft accident

p 49 N93-12612 LAD-A2545501

HORIE, MICHIHIKO

Manned lunar surface site: Conceptual study on pressurized lunar surface operation rover

p 316 N93-28032

HORIGOME, SHINICHI

Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 375 A93-49179

HORII, A. Neuropharmacology of motion sickness and emesis p 271 A93-39711 A review Motion sickness induced by sinusoidal linear

HORIUCHI, JOUJI

Effects of head down tilt on hepatic circulation and metabolism in conscious dogs p 80 A93-20899

HORLITZ, KRISTA L.

acceleration in rats

Satiation or availability? Effects of attention, memory, and imagery on the perception of ambiguous figures p 405 A93-55348

HORNECK, G.

Life in and from space p 237 N93-24373

HORNECK, GERDA

Water in the solar system and its role in exobiology: Proceedings of the European Geophysical Society General Assembly, 26th, Wiesbaden, Germany, Apr. 22-26, 1991 p 268 A93-36551

Responses of Bacillus subtilis spores to space environment - Results from experiments in space

p 268 A93-36556

for

p 322 N93-28895

p 168 A93-28736

p 272 A93-39712

HORNUNG, R. W.

Fluorocarbon 113 exposure and cardiac dysrhythmias p 168 A93-28739 among aerospace workers

HOROWITZ, PAUL

Wide-bandwidth high-resolution search for extraterrestrial intelligence [NASA-CR-191618] p 110 N93-15825

Wide-bandwidth high-resolution search for extraterrestrial intelligence p 110 N93-16709

extraterrestrial integration [NASA-CR-191807] p 1 to [NASA-CR-191807] bigh-resolution search [NASA-CR-193137]

HOROWITZ, STANLEY A. Relating flying hours to aircrew performance: Evidence

for attack and transport missions [AD-A253988] p 25 N93-10719 HORVITZ, ERIC

A decision-theoretic approach to the display of information for time-critical decisions: The Vista project

p 367 N93-32152 HOSHI, SEIKO Lunar surface experiment system p 316 N93-28034

HOSHI, T. Changes in vitamin A status following prolonged

immobilization (simulated weightlessness) p 166 A93-28720 Simulated weightlessness and bone metabolism -

HOSMAN, RUUD J. A. W.

False cue detection thresholds in flight simulation [AIAA PAPER 93-3578] p 407 A93-52674

Gravitational stimulation enhances insulin sensitivity

HOUCK, MICHAEL R. A cognitive classification of pilot performance in air p 347 A93-42814

combat HOUDAS, YVON

Intracardiac hemodynamics in man during short periods f head-down and head-up tilt p 117 A93-24044 of head-down and head-up tilt

HOUSTON, C. S. Operation Everest II - Spirometric and radiographic changes in acclimatized humans at simulated high p 383 A93-49574 altitudes

HOUSTON, CHARLES S.

Operation Everest II - Metabolic and hormonal responses to incremental exercise to exhaustion

p 115 A93-21685 Operation Everest II - Gas tensions in expired air and arterial blood at extreme altitude p 117 A93-24043

HYLAND, DIANE T.

HUFF, JAIMI

Management of trauma and emergency surgery in Age 60 Project: Consolidated database experiments Design of a radiator shade for testing in a simulated A93-28734 | HS-TR-8025-3C(R2) | p 167 p 314 N93-27851 lunar environment [NASA-CR-192080] Medical-care systems for long-duration space HYMER, W. C. p 108 N93-17710 missions p 169 A93-28755 HUFF, T. L. The pituitary - Aging and spaceflown rats HOWARD, EMILY p 79 A93-20661 Aquatic biofilms and their responses to disinfection and Virtual interface applications for airborne weapons Separation of rat pituitary secretory granules by ontinuous flow electrophoresis p 329 A93-44933 invading species [SAE PAPER 921211] continuous flow electrophoresis systems p 318 N93-28858 p 296 A93-41387 Requirements for pilot assistance in a thrust-vectoring Prolactin-induced mitogenesis of lymphocytes from HUFF, TIM p 329 A93-44934 combat aircraft p 320 N93-28870 ovariectomized rats Microbiological test results of the environmental control HOWARD, GLENN W., JR. Heterogeneity of rat pituitary prolactin cells and life support systems vapors compression distillation The application of filtration technology within the Water Relationships among location, hormone assay and estrous subsystem recycle tank components following various Processor on board Space Station Freedom [SAE PAPER 921270] p 300 p 358 A93-46606 cycle stage pretreatment protocols p 300 A93-41440 Commercial opportunities in bioseparations and INASA-CR-1925701 p 359 N93-32354 HOWARD, I. physiological testing aboard Space Station Freedom HUFF, TIMOTHY L. Aimed arm movements under changed gravity p 206 N93-22649 Microbiological and corrosion analysis of three urine p 193 N93-21113 HYMER, WESLEY C. retreatment regimes with titanium 6A1-4V HOWARD, IAN P. Electrophoretic separation of cells and particles from p 372 N93-32356 NASA-CR-192575 rat pituitary and rat spleen [NASA-CR-193073] Accuracy of aimed arm movements in changed gravity **HUFF, WINSTON** p 56 A93-16159 p 276 N93-28415 Space Station and lunar/Mars life support research HOWARD, RUSSELL D. HYPES, WARREN D. p 346 A93-42122 Neutral buoyancy simulation of space telerobotics The environmental control and life-support system for HUFFINE, EDWIN F. operations p 185 A93-27038 a lunar base: What drives its design p 66 N93-13991 Enhancement of drug detection and identification by use HOWE, ROBERT D. A force-reflecting teleoperated hand system for the study of various derivatizing reagents on GC-FTIR analysis [AD-A255582] of tactile sensing in precision manipulation HUFFMAN, SCOTT B. p 263 A93-35536 IANDOLO, J. J. HOWELL, LAWRENCE D., JR. Dimensions of complexity in learning from interactive Effects of antiorthostatic suspension and corticosterone p 191 A93-29111 CSERIAC case studies in ergonomics information instruction on macrophage and spleen cell function analysis p 349 A93-42850 HUGHES-FULFORD, M. p 153 A93-28693 HOWLETT, ERIC M. Effect of dexamethasone on proliferating osteoblasts IANOVS'KII, M. B. High-resolution inserts in wide-angle head-mounted Inhibition of prostaglandin E2 synthesis, DNA synthesis, Effect of low-frequency vibration on the activity of stereoscopic displays p 408 A93-53121 and alterations in actin cytoskeleton dehydrogenases in neurones of the nucleus vestibularis HOY, DENNIS M. p 155 A93-28728 p 242 A93-35670 Space Shuttle Orbiter oxygen partial pressure sensing HUGHES-FULFORD, MILLIE IAROTSKII, A. I. and control system improvements Altered cell function in microgravity Physical fitness as a criterion of readiness for [SAE PAPER 921347] p 305 A93-41506 p 79 A93-20660 p 98 A93-18412 spaceflights HU. FENGMING **HUGHES. EDWARD** IASNETSÖV, V. V. Model building, algorithm and simulation of the pressure An evaluation of miniaturized aircraft keyboards Spontaneous and evoked activity of neurons in the control system of a cabin p 29 A93-13534 p 348 A93-42844 parietal associative cortex of cats during motion sickness p 239 A93-35211 HU. MAOQI HUGHES, EDWARD B. Subtraction of 50 Hz interference from Testing a subjective metric of situation awareness Central neurophysiological and neurochemical vomiting electrocardiogram by using cycle averaging method mechanisms (Review of the literature) p 11 A93-13714 HUGHSON, R. L. p 240 A93-35232 HUANG, E. P. Evaluation of spontaneous baroreflex response after 28 IAVECCHIA, HELENE P. Colour is what the eye sees best p 159 A93-26245 days head down tilt bedrest p 386 A93-52404 Ocular attention-sensing interface system HUANG, HUA-MING [NASA-CR-190884] p 65 N93-13450 HULL, D. H. A physiological signal acquisition and processing system for bed-rest laboratory Blood lipids in aircrew recruits and in RAF aviators ICHIKAWA, MASUMI p 103 A93-19998 p 362 N93-32251 Effects of visually induced self-motion perception HUANG, SHAO YUNG (vection) on upright standing posture HUES M H Hypoxic ventilatory responsiveness in Tibetan compared p 214 A93-31531 p 280 A93-41120 Biofilm formation and control in a simulated spacecraft with Han residents of 3,658 m IDDINGS, E. HUANG, Y. vater system - Three year results A physician's workstation designed for NASA and ISAE PAPER 9213101 p 303 A93-41472 Accelerated heavy particles and the lens. VIII earth-based applications p 189 A93-28695 Comparisons between the effects of acute low doses of HUMBERT, P. IDESAWA, MASANORI iron ions (190 keV/microns) and argon ions (88 Health services at the Kennedy Space Center Two types of occlusion cues for the perception of 3-D keV/microns) p 216 A93-32784 p 154 A93-28711 p 222 A93-30239 illusory objects in binocular fusion HUBBARD, DÁVID C. IDLE, DUNNING, V Flight director information and pilot performance in Intraocular pressure and retinal vascular changes during TALON and CRADLE: Systems for the rescue of instrument approaches transient exposure to microgravity p 278 A93-39710 tumbling spacecraft and astronauts p 196 N93-22268 [AD-A258186] p 131 N93-17857 HUNTINGTON, JUDITH L. IGARASHI, M. Effects of area-of-interest display characteristics of Exobiology in Solar System Exploration [NASA-SP-512] p 1 Salivary total protein and experimental Coriolis visual search performance and head movements in p 112 N93-18545 sickness p 383 A93-49573 simulated low-level flight HUNTLEY, M. S., JR. IGARASHI, MAKOTO [AD-A264661] p 341 N93-30542 Instrument-approach-plate design considerations for Acute hemodynamic response to weightlessness during HUBBELL, D. H. displaying radio frequencies p 289 A93-39574 parabolic flight p 86 A93-17547 Lunar base CELSS: A bioregenerative approach HUNTOON, CAROLYN L. Role of the vestibular end organs in experimental motion p 67 N93-13993 Prevention of space flight induced soft tissue p 399 A93-55933 sickness - A primate model **HUBER, GERTRUD** calcification and disuse osteoporosis IIDA-KLEIN, AKIKO o 214 A93-31545 Life in hot springs and hydrothermal vents Cellular immunosenescence - An overview p 243 A93-36559 **HURST, CHARLES** p 80 A93-20663 HUBERMAN, E. Contaminant distribution and accumulation in water IIYAMA, S. Effects of maglev-spectrum magnetic field exposure on recycle systems Development of the nitrogen fixation system for [SAE PAPER 921360] p 307 A93-41519 CEM T-lymphoblastoid human cell growth and CELSS differentiation Generation of iodine disinfection by-products (IDP's) in [SAE PAPER 921238] p 297 A93-41411 IDE92-0411341 p 96 N93-16552 a water recycle system IKEHARA, CURTIS |SAE PAPER 921362| p 307 A93-41521 HUCK, RONALD P. A low cost helmet-mounted camera/display system for HURTL, H. Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) field testing teleoperator tasks Implementation of biological elements in life support IL'NITSKAIA, M. A. systems - Rationale and development milestones p 30 N93-10288 [AD-A253394] Psychophysiological studies of acute hypoxic hypoxia p 390 A93-49302 HUDSON, PAUL p 91 A93-18417 HUSTVEDT, B. E. Smart space suits for space exploration ILLAUER, DIETER Portable equipment developed to estimate energy p 28 A93-12078 Future military pilot training - A perspective of industry expenditure by simultaneous recording of heart rate and [AIAA PAPER 93-3601] p 404 A93-52689 **HUDSON, ROBERT** p 368 N93-32243 body position Training for avionics evaluation
[AIAA PAPER 92-4068] IMAI, AKIRA HUTTENBACH, ROBIN C. p 24 A93-11254 Cognitive performance and event-related brain Life Support and Habitability Manual ESA PSS-03-406 potentials under simulated high altitudes HUEBNER-MOTHS, JANIS |SAE PAPER 921338| p 305 A93-41497 p 331 A93-42189 Lunar base requirements for human habitability HWANG, VINCENT p 345 A93-41995 IMAL FUCHI Virtual display aids for teleoperation p 183 A93-27029 Pax permanent Martian base: Space architecture for the Catalytic accretion of thermal heterocomplex molecules from amino acids in aqueous milieu p 354 A93-43793 first human habitation on Mars, volume 5 HYDE, T. M.

Quantitative autoradiographic analysis of muscarinic cholinergic and GABAA (benzodiazepine) receptors in the

forebrain of rats flown on the Soviet Biosatellite COSMOS

p 156 A93-28743

Hydrogen-rated system for in vitro studies at pressure:

p 336 N93-30882

Operating procedures and emergency procedures

[NASA-CR-192042]

Comets as a possible source of prebiotic molecules

p 140 N93-18156

p 109 A93-17979

HOUTCHENS, B. A.

INAGAKI T

Organic models of interstellar grains

p 35 A93-11847

INAMURA, KINSAKU

Effect of water immersion on muscle sympathetic nerve response during static muscle contraction

p 402 A93-55328

INCE ILHAN

Operator vision aids for telerobotic assembly and p 262 A93-35530 servicina in space Operator vision aids for space teleoperation assembly and servicing p 33 N93-11981

INMAN, VAUGHAN W.

Predicting radiation induced performance decrements of AH-1 helicopter crews. Volume 2: Evaluation of modeling and simulation techniques for predicting radiation induced performance decrements p 351 N93-29484

IAD-A2628721 INNERS, L. D.

Changes in total body water during spaceflight

p 86 A93-17548

INNERS, L. DANIEL

Comparison of total body water estimates from O-18 and bioelectrical response prediction equations [NASA-TP-3299]

INOUE, M.

Development of the nitrogen fixation system for CELSS.

[SAE PAPER 921238]

p 297 A93-41411 INOUE, NAOTAKE

Adaptation of skeletal muscles and physical work capacity in a weightless environment p 38 A93-15527 INTRATOR, NATHAN

Theory of synaptic plasticity in visual cortex

[AD-A260052] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260322] p 219 N93-24238

IOI, K.

Research and development of sensing and manipulation techniques for space robotics on a testbed [AIAA PAPER 93-0794] p 136

p 136 A93-24873

Analysis of injuries following the crash of Avianca Flight p 382 A93-49562

IOSELIANI, K. K.

The asthenic syndrome and the dynamics of mental-work capacity p 256 A93-35241 p 256 A93-35241 **IOVINE. JOHN V**

ASDA - Advanced Suit Design Analyzer computer

program [SAE PAPER 921381] p 308 A93-41539

IRJALA, BRITA-LISA

Correlation of results of radiant heat test and convective heat test for three layered protective clothing

p 194 N93-21161

Control of breathing under conditions of altered atmospheric density during muscular work

p 89 A93-18288 ISAKSEN, MAI F.

Bacterial sulfate reduction above 100 C in deep-sea hydrothermal vent sediments p 80 A93-20672

Approaches to solving the problem of decompression safety of cosmonauts on their flights to Mars

p 90 A93-18410

The influence of military low-attitude flight noise on the inner ear of the guinea pig. II - Scanning electron p 377 A93-49556 micrographs

ISHIDSUKI, TOMOMI

Contribution of psychiatry to life in space p 56 A93-15529

ISHIJIMA, YOSHIRO

Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 375 A93-49179 ISHIZAKI, HISAYOSHI

Postural stabilization on a moving platform oscillating p 252 A93-35497 at high frequencies ISHUTIN, V. N.

Application of contrasting temperatures as a method of preadapting pilots to the conditions of a hot climate p 45 A93-15166

ISING, H.

The influence of military low-altitude flight noise on the inner ear of the guinea pig. I - Hearing threshold measurements p 377 A93-49555 р 377 The influence of military low-altitude flight noise on the

inner ear of the guinea pig. II - Scanning electron p 377 A93-49556 micrographs ITO, M.

Effect of transdermally administered scopolamine on the vestibular system in humans p 383 A93-49572

ITO, MASAO

Arterial oxygen saturation during +Gz acceleration by p 379 A93-49178 short-radius centrifuge

Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 375 A93-49179 IVANCHIKOV. A. P.

New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774

Parameters of external breathing in an excess-pressure atmosphere p 76 A93-18298

Validation of the use of the helium-neon laser in the medical rehabilitation of patients with atrophy

The values of the skin-temperature gradients and their p 9 A93-12862

significance for thermoregulation The efficiency of thermoregulatory responses in the cooling of the organism p 325 A93-43136 IVANOV, ORLIN KH.

Some proteins keep 'living fossil' pre-sequence p 244 A93-36562

IVANOVA, T. N.

Dynamics of the controlled environment conditions in 'SVET' greenhouse in flight p 152 A93-27460 The first 'space' vegetables have been grown in the 'SVET' greenhouse using controlled environmental p 394 A93-52410 conditions

IVANOVA, TANIA

Moistening of the substrate in microgravity p 135 A93-21906

IVASHCHENKO, A. L.

Psychophysiological characteristics of the activity of flight personnel during training on VTOL aircraft p 45 A93-15175

IVASHKEVICH, ALEKSANDRA A.

Effects of a 1-yr stay at altitude on ventilation, metabolism, and work capacity p 92 A93-20028 IVERSEN, OLE-JAN

Variability over time of complement activation induced by air bubbles in human and rabbit sera

p 323 A93-42190 IVERSEN, T.-H.

The USO-concept applied to a biological model experiment p 210 N93-24379 experiment Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme

p 226 N93-24382

IWANYK, EUGENE

Effects of simulated high altitude exposure on long-latency event-related brain potentials and performance p 117 A93-24042

IWASAKI, KEIGO

Telemanipulation experiment using predictive display p 411 A93-56256

IWASAKI, KENICHI

Arterial oxygen saturation during +Gz acceleration by short-radius centrifuge p 379 A93-49178 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 375 A93-49179 IWASE SATOSHI

Effect of water immersion on muscle sympathetic nerve response during static muscle contraction

p 402 A93-55328

IWATA, TOSHIAKI

Research of a free-flying telerobot. IV - Development of dual-arm manipulation system p 411 A93-56254 Research of a free-flying telerobot. V - Handling a target with multi-arms p 411 A93-56255

Skill compensation and dynamic coupling of nacro/smart effector system p 411 A93-56260 macro/smart effector system IWATA, TSUTOMU

Study on environment control and life support technology IWATA, YOSHIHIRO

Study of the whole-body response to vibration: The effect of repeated exposure to the long-term whole-body vibration. II p 9 A93-11286

IZUMI-KUROTANI, AKEMI

Japanese treefrog experiment onboard the Space Station Mir p 210 N93-24402

J

JABLONSKI, DAVID

Geography of end-Cretaceous marine extinctions p 273 A93-41075 JACKS, JOHN D.

Helmet visor support apparatus [AD-D015684] p 351 N93-29606

JACKSON, C. G. R.

Vascular uptake of rehydration fluids in hypohydrated men at rest and exercise [NASA-TM-103942] p 255 N93-26133

JACKSON, DANIEL L.

How do zooplankton feed? A critical microgravity p 158 N93-21097 experiment

JACKSON, L. NEAL

Space biology initiative program definition review. Trade study 5: Modification of existing hardware (COTS) versus new hardware build cost analysis p 207 N93-23069 Space biology initiative program definition review, Trade

study 1: Automation costs versus crew utilization p 208 N93-23070

Space biology initiative program definition review. Trade study 4: Design modularity and commonality

p 208 N93-23071

Space biology initiative program definition review. Trade study 3: Hardware miniaturization versus cost p 208 N93-23080

Space biology initiative program definition review. Trade study 6: Space Station Freedom/spacelab modules compatibility

n 209 N93-23081 LEE1-89-2361

Space biology initiative program definition review. Trade study 2: Prototype utilization in the development of space p 209 N93-23082 biology hardware

JACOBS, BARRY L.

Physiological analyses of the afferents controlling brain neurochemical systems

IAD-A2531851 p 14 N93-11146

JACOBS, I.

Influence of temperature and metabolic rate on work performance with Canadian Forces NBC clothing

p 389 A93-49218 Continuous vs. intermittent work with Canadian forces NBC clothing p 389 A93-49219 Influence of the Cold Buster (tm) sports bar on heat debt, mobilization and oxidation of energy substrates p 285 N93-28939

JACOBS, IRA

Muscle glycogen, fiber type, aerobic fitness, and anaerobic capacity of West Coast US Navy Sea-Air-Land personnel (SEALs)

p 121 N93-18209 AD-A2583641

JACOBSON, K. B.

Development of resonance ionization spectroscopy for genome mapping and DNA sequencing using stable isotopes as DNA labels

IDE93-0078151 p 246 N93-26587

JAEHN, S.

Mir 1992 operations and crew training

p 226 N93-24352

p 310 A93-41564

JAHNKE, L. L. The effects of growth temperature on the methyl sterol and phospholipid fatty acid composition of Methylococcus p 153 A93-28691

JAHNKE LINDA L

The effects of growth temperature on the methyl sterol and phospholipid fatty acid composition of Methylococcus p 37 A93-14121 capsulatus (Bath)

Norepinephrine content in discrete brain areas and neurohypophysial vasopressin in rats after a 9-d spaceflight p 273 A93-41167

JAMES, JOHN

First entry operations for spacecraft

p 308 A93-41542 [SAE PAPER 921384] The role of Environmental Health System air quality monitors in Space Station Contingency Operations ISAE PAPER 921414) p 310 A93-41565

JAMES, JOHN T.

Setting Spacecraft Maximum Allowable Concentrations for 1 hour or 24 hour contingency exposures to airborne chemicals

[SAE PAPER 921410] JAMMES, Y.

T wave changes in humans and dogs during experimental dives p 92 A93-20026

JANES, CRAIG Hypoxic ventilatory responsiveness in Tibetan compared

with Han residents of 3,658 m p 280 A93-41120 Minimal hypoxic pulmonary hypertension in normal Tibetans at 3,658 m p 280 A93-41121

JANNASCH, HOLGER W.

Bacterial sulfate reduction above 100 C in deep-sea hydrothermal vent sediments p 80 A93-20672 JANNEY, R. P.

In vivo testing confirms a blunting of the human

cell-mediated immune mechanism during space flight p 167 A93-28732 JANSEN, J. E.

The next generation female in cockpit: Do we need a

[DE92-016034]

sensor

new approach to cockpit resource management (CRM)? p 143 N93-19704 JANSEN, J. F. Initial experiments with a myoelectric-based muscle

B-29

p 237 N93-25099

JARRETT, D. N. JARRETT, D. N. JARSTFER, AMIEL G. [PB92-204973] JASPER, LOUIS J., JR. JEFFERS. E. L. [SAE PAPER 921264] JELINSKI, L Center of Excellence in Biotechnology (Research) AD-A263598 JENKINS, F. H. Training JENKINS, JAMES P.

The quest for an integrated flying helmet p 319 N93-28860

The production and use of aeroponically grown inocula of VAM fungi in the native plant nursery p 43 N93-15208

Variable-Volume Flushing (V-VF) device for water conservation in toilets p 195 N93-22167

Process Control Water Quality Monitor for Space Station Freedom - Development update p 299 A93-41434

Continuous manitoring of effluent iodine levels of Space Station water using solid state technology p 299 A93-41435 ISAE PAPER 9212651

An on-line water quality monitor for Space Station p 364 A93-46801

p 330 N93-29915

Success rate analysis of Navy SERGRAD Flight p 56 A93-16152

EVA/manned systems p 312 N93-27789 JENKINS, RICHARD A.

Neuropsychiatric morbidity in early HIV disease: Implications for military occupational function

p 18 N93-11299

JENNINGS, R. T. Comparison of treatment strategies for space motion p 386 A93-52402

JENNINGS, RICHARD T. Treatment efficacy of intramuscular promethazine for Space Motion Sickness p 212 A93-30283

JENSEN, DEAN G. Task-analytic evaluations of Space Station Freedom p 187 A93-27157 workstations Evolving technologies for Space Station Freedom

computer-based workstations p 313 N93-27794 JENSEN, MARY C. Human-in-the-loop evaluation of RMS Active Damping

Augmentation D 393 A93-51460 IAIAA PAPER 93-38751 JERNEJ, G.

Monitoring of cardiovascular parameters during the p 220 N93-24367 AustroMir space flight

JESSEN, F. Arterial pulse pressure and vasopressin release in

humans during lower body negative pressure p 360 A93-47096

JIANG, BIAN Absence of a growth hormone effect on rat soleus p 272 A93-40548 atrophy during a 4-day spaceflight JIANG, CHENG

Preliminary observation of influences of three forms of weightlessness hemorheological characteristics in rabbit p.3 A93-13538

JIANG, GUOHUA Study of overall analysis

method of man-machine-environment systems p 61 A93-14413 JIANG, QIYUAN

Evaluation of speech technology for enhancing performance of man-machine systems p 350 A93-44846

JIANG, YONG overall analysis method of Study of man-machine-environment systems p 61 A93-14413 JIAO, SHUJIN

Study of overall analysis method man-machine-environment systems p 61 A93-14413

JOANNES, R. p 145 N93-19766 Flight above a virtual world

JOHANSEN, L. B. Arterial pulse pressure and vasopressin release in

humans during lower body negative pressure p 360 A93-47096

JOHANSEN, LARS B.

Effect of water immersion on renal natriuretic peptide (urodilatin) excretion in humans p 381 A93-49293 Volume-homeostatic mechanisms in humans during a p 387 A93-52620 12-h posture change

Central cardiovascular pressures during graded water nmersion in humans p 402 A93-55457 immersion in humans JOHANSSON, KARL R.

Life support and self-sufficiency in space communities p 105 N93-16866 JOHN, MERVYN

Examination of the relationship between changes in the demand for civil aviation services and the volume of flight p 98 A93-18773 simulator training

JOHNSON, ADRIEL D.

Ground testing of bioconvective variables such as morphological characterizations and mechanisms which regulate macroscopic patterns p 82 N93-17303 JOHNSON, CATHERINE C.

The Biological Flight Research Facility

p 239 A93-34581 JOHNSON, DAVID G.

Tissue-specific noradrenergic activity during acute heat p 323 A93-42193 stress in rats JOHNSON, DON H.

Simulation of excitatory/inhibitory interactions in single auditory neurons p 50 N93-13252

JOHNSON, E. R.

Biological conversion of synthesis gas culture development p 6 N93-12482

JOHNSON, F.

The development of an automated cell culture system for use in space life science research n 158 N93-21085

JOHNSON, KENNETH O. Automated system for analyzing the activity of individual

p 173 N93-22163 neurons JOHNSON, LAMAR J.

Life support research and development for the Department of Energy Space Exploration Initiative p 137 A93-25309

JOHNSON, NEAL F. Candidate technologies for the Integrated Health

Management Program INASA-CR-1925201 n 217 N93-22655 JOHNSON, RICHARD F.

The Environmental Symptoms Questionnaire (ESQ): Development and application

[AD-A264127] p 335 N93-30196 JOHNSON, THEODORE C.

A study of the effects of micro-gravity on seed p 40 N93-13167 germination

JOHNSON, THOMAS E. Caenorhabditis elegans - A model system for space

biology studies p 80 A93-20665 JOHNSON, WALTER W. Visual cues in low-level flight - Implications for pilotage,

training, simulation, and enhanced/synthetic vision p 264 A93-35918 JOHNSSON, ANDERS

A proposal to determine properties of the gravitropic response of plants in the absence of a complicating g-force (GTHRES)

[NASA-CR-192219] p 114 N93-19377 JOHNSTON, JAMES C.

Locus of the single-channel bottleneck in dual-task p 55 A93-14098 interference Involuntary attentional capture by abrupt onsets

p 97 A93-17974 The role of spatial attention in visual word processing p 339 A93-44922

JOHNSTON, K. W.
Cerebral blood flow velocities by transcranial Doppler p 84 A93-17533 during parabolic flight

JOHNSTON, LAWRENCE

Finite element analysis of a composite artificial ankle p 174 · N93-22189

JOHNSTON, NEIL

The development and use of a generic nonnormal checklist with applications in ab initio and Introductory Advanced Qualification Programs p 180 A93-27456 JOHNSTON, SMITH L., III

Animal surgery in microgravity p 112 A93-24047 JOLLER, P. W.

Effect of head-down tilt bedrest (10 days) on lymphocyte p 163 A93-28684

JOLLY, CLIFFORD

Catalytic oxidation for treatment of ECLSS and PMMS waste streams |SAE PAPER 921274| p 301 A93-41443

JOLLY, CLIFFORD D.

Regenerable biocide delivery unit [NASA-CASE-MSC-21763-1-SB] p 112 N93-18351 JONES, C.

Suction-cup shoes for astronauts - A new method foot restraint p 62 A93-17072 JONES, D. R.

Results of a structured psychiatric interview to evaluate p 223 A93-32780 NASA astronaut candidates JONES, DENISE R.

Evaluation of conformal and body-axis attitude p 229 A93-30070 information for spatial awareness JONES, ERIC M.

Pressure suit requirements for moon and Mars EVA's p 346 A93-42123 JONES, HEBER D.

satellite ground control

Effects of 2 mg and 4 mg atropine sulfate on the performance of U.S. Army helicopter pilots

p 7 A93-10326 The relationship between computer scoring and safety-pilot grading of flight performance

p 58 N93-14600 JONES J D Engineering verification of the biomass production

p 67 N93-13996 chamber JONES, PATRICIA M. Human-computer cooperative problem solving

p 188 A93-27163

JONES, ROBERT K. p 104 A93-20779 Beryllium toxicity - An update JONES, TANYA E.

Nutrition and hydration status of aircrew members consuming the food packet, survival, general purpose, improved during a simulated survival scenario

IAD-A2587441 p 128 N93-20384 JORALMON, DEFOREST Q.

Night vision goggle training: Development and production of six video programs 1AD-A2585291 p 148 N93-20050 JORGENSEN, BO B.

Bacterial sulfate reduction above 100 C in deep-sea p 80 A93-20672 hydrothermal vent sediments JOUANY, J. M.

Fires on board aircraft: Toxicological risk in flight p 126 N93-19694

JOULIA, F. and dogs during p 92 A93-20026 T wave changes in humans experimental dives

JOVELIC, S. Back ache in helicopter pilots n 382 A93-49566 JUDAY, RICHARD D.

- Channel matching Human low vision image warping considerations p 231 A93-32444 Design of a reading test for low vision image warping

p 400 A93-53025 JUHOS, L. T. Vascular uptake of rehydration fluids in hypohydrated

men at rest and exercise p 255 N93-26133 INASA-TM-1039421

Relationship between G + C in silent sites of codons and amino acid composition of human proteins

p 358 A93-47099 JUNG MOON R

Human-like agents with posture planning ability p 192 A93-29118

JUNGIUS, C. Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme p 226 N93-24382

K

KABRISKY, MATTHEW

Spectral analysis of the electroencephalographic response to motion sickness p 116 A93-24041 Computerized task battery assessment of cognitive and performance effects of acute phenytoin motion sickness therapy KACIMI, RACHID p 211 A93-30278

Hypoxia-induced downregulation of beta-adrenergic p 37 A93-14973 receptors in rat heart

KACIUBA-USCILKO, H. Muscle mitochondrial density after exhaustive exercise in dogs - Prolonged restricted activity and retraining

p 242 A93-35498

KADYRALIEV, T. K.
Functional and structural adaptation of the yak pulmonary circulation to residence at high altitude p 326 A93 44181

KAEMPF, GEORGE L

An evaluation of crew coordination and performance during a simulated UH-60 helicopter mission [AD-A254984] p 35 N93-12509

KAHAN, N. J. Intramuscular pressure and electromyography as

indexes of force during isokinetic exercise p 380 A93-49291

KAIDAKOW, M. Influence of microgravity on immune system and genetic p 220 N93-24370 information

KAISER, M. K.

Influence of animation on dynamical judgments p 180 A93-28692

KAISER, MARY K.

Factors influencing perceived angular velocity p 97 A93-17800

Using the stereokinetic effect to convey depth -Computationally efficient depth-from-motion displays p 102 A93-19987

PERSONAL AUTHOR INDEX **KELLY, GEORGE** Influence of animation on dynamical judgments Imaging regional changes in the spontaneous activity of the brain: An extension of the minimum-norm KAREMAKER J. M. p 98 A93-20275 Increased orthostatic blood pressure variability after prolonged head-down tilt least-squares estimate Human factors issues in the use of night vision p 161 A93-28676 Influence of posture and prolonged head-down tilt on p 189 A93-27193 LAD-A2615931 n 260 N93-26436 Things that go bump in the light - On the optical cardiovascular reflexes p 161 A93-28677 KALIFMAN, PETER B. specification of contact severity Cardiovascular response to lower body negative p 256 A93-35099 Cell wall and enzyme changes during the graviresponse pressure before, during, and after ten days head-down tilt bedrest p 162 A93-28681 Visual cues in low-level flight - Implications for pilotage, of the leaf-sheath pulvinus of oat (Avena sativa) training, simulation, and enhanced/synthetic vision p 329 A93-44941 Cardiopulmonary function during 10 days of head-down p 264 A93-35918 Dynamics of auxin movement in the gravistimulated Perceptual bias for forward-facing motion tilt bedrest It bedrest p 162 A93-28683 Head-down tilt bedrest: HDT'88 - An international leaf-sheath pulvinus of oat (Avena sativa) p 339 A93-44940 p 358 A93-46472 collaborative effort in integrated systems physiology KAJI, MASANOBU Mortality experience of cockpit crewmembers from p 164 A93-28689 Cerebral blood flow velocity in humans exposed to 24 h of head-down tilt p 381 A93-49295 KARLISCH P p 385 A93-52306 p 381 A93-49295 Mechanically induced alterations in cultured skeletal KAL'NISH, V. V. KAWAMURA, K. Investigation of individual and typological features of an muscle growth p 202 A93-32749 Immunocytochemical localization of atrial natriuretic KARLISCH, PATRICIA operator's nervous system under different work regimes factor (ANF)-like peptides in the brain and heart of the treefrog Hyla japonica - Effect of weightlessness on the Computer-aided mechanogenesis of skeletal muscle p 339 A93-43024 KALAWSKY, ROY S. organs from single cells in vitro p 205 A93-33045 distribution of immunoreactive neurons and cardiocytes The realities of using visually coupled systems for training p 377 A93-49561 p 228 A93-30063 On the control of a class of flexible manipulators using applications KAWASHIRO, KATSUHIRO KALAYCIOGLU, S. feedback linearization approach p 231 A93-31533 On the reaction of 2-aminopropionitrile in aqueous KARUPPIAH, NADARAJAH Robotics evaluation and characterization (REACH) of p 354 A93-43791 the SSRMS concept and technical issues Cell wall and enzyme changes during the graviresponse KAY, EDWIN J. p 230 A93-31031 IAIAA PAPER 93-11561 of the leaf-sheath pulvinus of oat (Avena sativa) Age 60 Project: Consolidated database experiments [HS-TR-8025-3C(R2)] p 314 N93-27851 p 329 A93-44941 Ground-based control of Space Station Freedom-based KASHIMURA, O. robots p 263 A93-35570 KALEPS, INTS KAY, G. G. Effects of high altitudes on finger cooling test in Japanese and Tibetans at Qinghai Plateau military Hybrid 2 and hybrid 3 dummy neck properties for Relating cognitive function to computer modeling p 382 A93-49560 p 17 N93-11298 performance in early HIV infection LAD-A2555441 n 66 N93-13874 KASHIMURA, OSAMU KAY, GARY G. Improving manikin biofidelity Thermogenesis induced by inhibition of shivering during p 142 N93-19668 Measuring performance decrements in aviation KALINKIN, S. V. cold exposure in exercise-trained rats personnel infected with the human immunodeficiency Some biochemical and functional characteristics of body p 75 A93-18039 n 130 A93-25209 state during multihour operator activity under extreme KASSAM, M. S. KAYE, DONALD conditions Cerebral autoregulation in microgravity Heterogeneity of changes in lymphoproliferative ability p 161 A93-27686 p 173 N93-21112 KALLERGI, MARIA p 79 A93-20662 with increasing age KAYSER, BENGT Digital mammography, cancer screening: Factors KASSAM, MIKE S. Cerebral blood flow velocities by transcranial Doppler during parabolic flight p 84 A93-17533 important for image compression p 221 N93-24551 Energy expenditure climbing Mt. Everest p 92 A93-20031 p 84 A93-17533 KALLINGS, LARS O. HIV infection in the nineties p 15 N93-11290 KASTING, JAMES F. Protein absorption and energy digestibility at high KAMATA, TERUMITSU The life span of the biosphere revisited p 115 A93-21683 altitude Manned lunar surface site p 149 A93-21847 p 316 N93-28033 KEEFE, A. A. KAMBE, FUKUSHI Algae and oxygen in earth's ancient atmosphere AFTERRISE: Deep body temperature following Modification of water and electrolyte metabolism during p 153 A93-27800 exercise head-down tilting by hypoglycemia in men [AD-A259887] p 218 N93-23984 Habitable zones around main sequence stars p 92 A93-20029 p 197 A93-28376 KEEFE, J. RICHARD Venus: A search for clues to early biological pssibilities p 113 N93-18549 KAMEGAI, M. Life sciences recruitment objectives p 205 N93-22623 Arterial pulse pressure and vasopressin release in possibilities humans during lower body negative pressure KATO, KATHARINE Computer aided methods for simulating occupant response to impact using OASYS DYNA3D p 360 A93-47096 Effects of spaceflight on the spermatogonial population of rat seminiferous epithelium p 329 A93-44935 KAMEYAMA, YUICHI Effect of chronic centrifugation on in vitro fertilization p 142 N93-19666 KATO, MASASHI and early development in mice ova p 375 A93-49179 KEIFER, D. A. Relationship between alcohol drinking habit and blood KAMIMORI, GARY New approaches to the measurement of chlorophyll, pressure changes during the period of 25 years on JASDF related pigments and productivity in the sea [NASA-CR-190879] p 42 Effects of simulated high altitude exposure on p 333 A93-45321 aged pilots p 42 N93-13612 long-latency event-related brain potentials and performance p 117 A93-24042 KATOU, NOBUTAKA KEIL, L. C. Conceptual study of manned lunar surface site KAN. E. L. Drug effects on orthostatic intolerance induced by p 316 N93-28031 p 86 A93-17544 Investigation Of hemodynamics bedrest KATUNTS, V. P. sympatheticoadrenal system activity in air traffic controllers Effect of hemorrhage on cardiac output, vasopressin, Approaches to solving the problem of decompression aldosterone, and diuresis during immersion in men p 247 A93-35209 safety of cosmonauts on their flights to Mars KANBA, SIGENOBU p 6 N93-12014 I NASA-TM-103949 I p 90 A93-18410 Contribution of psychiatry to life in space Vascular uptake of rehydration fluids in hypohydrated p 56 A93-15529 KATUNTSEV. V. P. men at rest and exercise [NASA-TM-103942] Ultrasonic location of gas bubbles in the vascular bed KANEKO. S. p 255 N93-26133 Working hours and fatigue of Japanese flight attendants of a person working in a space suit p 262 A93-35239 KEIPERT, PETER E. (FA) KATZ, R. Increased plasma O2 solubility improves O2 uptake of KÀNNAN. S. in situ dog muscle working maximally Track structure model for damage to mammalian cell cultures during solar proton events p 111 A93-21684 A robust model for finding optimal evolutionary trees p 75 A93-18073 IDE93-0106821 p 330 N93-30483 KEITH, G. KATZ, ROBERT KANSTRUP, INGE-LIS Clinical and diagnostic requirements - Biochemical Katz model prediction of Caenorhabditis elegans exploration of amino acid metabolism, tRNA turnover and Effects of acute hypoxia on renal and endocrine function mutagenesis on STS-42 p 49 A93-17442 at rest and during graded exercise in hydrated subjects [NASA-TM-4383] lymphocyte activation KEKSZ, WILLIAM O. p 93 A93-20035 KAUFMAN, JONATHAN W. The Servicing Aid Tool
KELLER, BIRGIT p 192 A93-29116 Renal hemodynamics, tubular function, and response Effectiveness of NASA 1032 and 1035 and Air Force to low-dose dopamine during acute hypoxia in humans 1030 and 1034 units in protection against cold water p 332 A93-44180 Photobiological investigations on spores hypothermia KANTOWITZ, BARRY H. streptomyces griseus IAD-A2551201 o 34 N93-12291 [ESA-TT-1269] p 277 N93-29274 Flight deck automation and pilot workload Ventilation loss in the NASA Space Shuttle crew SAE PAPER 921132 p 291 A93-41320 KÈLLER, T. S. protective garments: Potential for heat stress [AD-A258552] p 148 KAPEN, E. H. Bone loss and human adaptation to lunar gravity p 148 N93-19955 p 51 N93-14002 Dynamics of auxin movement in the gravistimulated KAUFMAN, L. KELLER, TONY S. leaf-sheath pulvinus of oat (Avena sativa) Cognition and the brain Predicting skeletal adaptation in altered gravity environments p 213 A93-30772 p 358 A93-46472 p 59 N93-14788 [AD-A255483] Healing of fractured bone in rats during readaptation following 14-day suspension p 241 A93-35260 KAPLICKY, JAN Duration of alpha suppression increases with angle in KELLEY, CHERYL A. a mental rotation task Methane transport mechanisms and isotopic fractionation in emergent macrophytes of an Alaskan p 260 N93-26435 AD-A261592] Neuromagnetic investigation of p 38 A93-16544 Vertical regolith shield wall construction for lunar base cortical regions underlying short-term memory [AD-A261445] applications p 107 N93-17446 KELLEY, WILLIAM A. p 261 N93-26521 Flow cytometric analysis of lymphocyte surface markers KARAVIS. A. The MOD (UK) integrated helmet technical demonstrator following a 1-Gy dose of gamma radiation KAUFMAN, LLOYD

Neuromagnetic investigations of cortical regions

p 58 N93-14646

underlying short-term memory [AD-A255788]

p 145 N93-19769

p 319 N93-28860

The quest for an integrated flying helmet

p 281 A93-41170

p 228 A93-30060

KELLY, GEORGE

Helmet-mounted area of interest

KELLY, GEORGE R. PERSONAL AUTHOR INDEX

KELLY, GEORGE R. KIDA, TAKASHI Helmet-mounted area-of-interest display Optimal manipulator trajectories for space robots AAS PAPER 91-669] IAD. 42582751 p 139 N93-18029 p 410 A93-55838 KELLY, KEVIN J. KIEBZAK, GARY M. KIRKPATRICK, GARY Space Shuttle Orbiter oxygen partial pressure sensing Age-related bone changes p 93 A93-20655 and control system improvements KIFLAR, ALAN |SAE PAPER 921347| p 305 A93-41506 KIRLIK, ALEX Eye slaved pointing system for teleoperator control p 101 A93-19090 Control of infection in an international airline KIJIMA, RYUGO p 407 A93-52867 Human behavior in virtual environments KELLY, TAMSIN p 233 A93-33447 Sleep inertia: Is there a worst time to wake up? KIKUCHI, K. p 52 N93-14240 INASA-CR-192361 | [AD-A256602] Development of the nitrogen fixation system for KEMP. C. CELSS KIRSCH, KARL Monitoring of cardiovascular parameters during the I SAE PAPER 921238 | p 297 A93-41411 AustroMir space flight p 220 N93-24367 KIKUKAWA, AZUSA KENDALL, ROBERT R. Relationship between alcohol drinking habit and blood A cognitive classification of pilot performance in air KIRSCHVINK, JOSEPH L. pressure changes during the period of 25 years on JASDF combat p 347 A93-42814 aged pilots p 333 A93-45321 KENDALL SARAH N. Neuropsychiatric morbidity in early HIV disease: Immunocytochemical localization of atrial natriuretic Implications for military occupational function factor (ANF)-like peptides in the brain and heart of the p 18 N93-11299 treefrog Hyla japonica - Effect of weightlessness on the KENNEDY, ROBERT S. distribution of immunoreactive neurons and cardiocytes An individual differences approach to fitness-for-duty p 377 A93-49561 p 178 A93-27178 assessment KISELEV. V. I. KILDUFF, PATRICIA W. Changes in the dark focus of accommodation associated A study of the effects of lens focal length on remote with simulator sickness p 379 A93-49222 driver performance Profile analysis of simulator sickness symptoms -Application to virtual environment systems KISTEMAKER, I. C. KILGORE, M. V., JR. Microbiological methods for the water recovery systems p 381 A93-49399 nutrition knowledge questionnaire KITAMURA, TOSHINORI Prediction of motion sickness susceptibility test, revision 1.1 p 403 A93-55940 p 64 N93-12966 INASA-CR-1843901 Simulator sickness p 403 A93-55944 Contribution of psychiatry to life in space KILGORE, MELVIN V., JR. Motion and human performance p 406 A93-55949 ECLSS medical support activities KITSOU. A. p 23 N93-12427 [NASA-CR-184429] Monitoring of cardiovascular parameters during the Methods development for total organic carbon AustroMir space flight p 220 N93-24367 accountability KLASSI, JASON D. I NASA-CR-184438 I n 40 N93-12949 Evaluation of inertial devices for the control of large, KILGOUR, ROBERT D. flexible, space-based telerobotic arms Cardiovascular responses during recovery from exercise biosphere concepts p 101 A93-18710 p 212 A93-30282 and thermal stress KENYON, ROBERT V. development The effects of field of view size on the control of roll Automated system for early breast cancer detection in [DE92-001279] motion p 349 A93-43722 mammoorams p 253 N93-25568 KLEIN, DAVID L KERGUELEN, M. Cell wall and enzyme changes during the graviresponse of the leaf-sheath pulvinus of oat (Avena sativa) Fires on board aircraft: Toxicological risk in flight p 126 N93-19694 p 329 A93-44941 IAD-A2609771 KERLEY, JAMES J. KIM. JUNG H. KLEIN, HAROLD P. Compliant walker Recognition of partially occluded threat objects using [NASA-CASE-GSC-13348-2] p 53 N93-14708 Exobiology science objectives at a lunar base p 142 N93-19466 the annealed Hopefield network KERSTHOLT, J. H. KIM. W. S. Decision making in a dynamic task environment: The Operator performance with alternative manual control effect of time pressure biological sciences p 390 A93-49397 modes in teleoperation (AD-A256557) p 58 N93-14602 KLEIN, LYNN SUZANNE KIM. WON S. KESSLER, JOHN O. Fusing human and machine skills for remote robotic The internal dynamics of slowly rotating biological ystems p 375 A93-49208 operations perations p 137 A93-24994 An operator interface design for a telerobotic inspection systems KLEIN, PETER D. KEYSER, PAUL I. Comparison of total body water estimates from O-18 The application of filtration technology within the Water [AIAA PAPER 93-1160] p 231 A93-31034 I NASA-TP-3299 I Processor on board Space Station Freedom A teleoperation training simulator with visual and p 300 A93-41440 [SAE PAPER 921270] KLEIN, STANLEY A. kinesthetic force virtual reality p 233 A93-33448 Spatio-temporal masking: Hyperacuity and local KHANNA, RAJ K. Remote surface inspection system adaptation Computational study of radiation chemical processing p 410 A93-55469 IAD-A2579341 in comet nuclei p 109 A93-17982 KIMCHI, RUTH KLEIN, W. Performance under dichoptic versus binocular viewing KHARAT'YAN, E. F. conditions - Effects of attention and task requirements Ozone - A new aspect of its effect on microorganisms p 398 A93-54971 information p 287 A93-40772

KHARAZMI, A.

Influence of in vivo hypobaric hypoxia on function of lymphocytes, neutrocytes, natural killer cells, and p 280 A93-41123 cytokines

KHARITONOV. I.

Development and implementation of the MotoMir experiment on the Mir Space Station

p 220 N93-24363 KHATWA, R.

A comparative evaluation of three take-off performance monitor display types I AIAA PAPER 93-36081 p 406 A93-52669

KHOLODOV, YU. A.

The human EEG correlates during many-sided peripheral exposure to an alternating magnetic field

p 363 A93-46966

KHOURY, GEORGE J.

Telerobotic system performance measurement
Motivation and methods p 191 A93-29 p 191 A93-29114 KIBBE, MARION P.

recognition systems

Man-machine interface with simulated automatic target p 147 N93-19781 KIDA, MITSURO

Cognitive performance and event-related brain potentials under simulated high altitudes p 331 A93-42189

KIMES, KENNETH L.

Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21)

p 30 N93-10288

KIMURA, KAZUHIKO Influence of viscous resistance on heart rate and oxygen uptake during treadmill walking in water

p 94 A93-20898 KING. JAMES M.

Interpupillary and vertex distance effects on field-of-view and acuity with ANVIS [AD-A261259] p 268 N93-26265

KING, NANCY

Field trial of caffeine on physical performance at altitude:

An attempt to overcome the challenge

p 337 N93-30894 [AD-A264260]

KING, PHILIP A.

Advanced displays for military operations

p 28 A93-13350 [AIAA PAPER 92-4243] KINNEY, S.

Integration of exterior lighting systems and night vision

imaging systems IAD-A2548261 p 63 N93-12732

KIRBY, CHRISTOPHER R.

Eccentric exercise training as a countermeasure to non-weight-bearing soleus muscle atrophy

p 78 A93-20033

Spaceflight on STS-48 and earth-based unweighting produce similar effects on skeletal muscle of young rats p 326 A93-44179

Phytoplankton photosynthesis in natural mixed layers p 39 N93-12871

Modeling strategic behavior in human-automation interaction - Why an 'aid' can (and should) go unused p 394 A93-52502

Acquisition and production of skilled behavior in dynamic decision-making tasks

p 181 N93-20908

Effects of 28-day isolation (ESA-ISEMSI'90) on blood pressure and blood volume regulating hormone

p 251 A93-35495

Magnetic domain state and coercivity predictions for biogenic greigite (Fe3S4) - A comparison of theory with magnetosome observations p 38 A93-16481

Some biochemical and functional characteristics of body state during multihour operator activity under extreme p 161 A93-27686

Features of the effect of hypokinesia on cardiac activity in rats with high and low spontaneous motor activity n 240 A93-35224

An automated processing system for food frequency and p 367 N93-32241

p 56 A93-15529

Lipidemic profile of Hellenic Airforce officers

p 362 N93-32250

Lunar subsurface architecture enhanced by artificial p 107 N93-17448

Biological conversion of synthesis gas culture p 6 N93-12482

Modeling of a full vision system using combined Visual/Haptic search for remote object identification p 266 N93-25867

p 71 A93-17435

The solar system: Importance of research to the p 113 N93-18547

A study of the effects of micro-gravity on seed p 40 N93-13167

and bioelectrical response prediction equations p 218 N93-23734

p 121 N93-18006

Influence of microgravity on immune system and genetic p 160 A93-26572 Influence of microgravity on immune system and genetic p 220 N93-24370 information

KLEISS, JAMES A.

Multidimensional scaling analysis of terrain features relevant for simulating low-altitude flight

p 188 A93-27186

Perceptual dimensions of visual scenes relevant for simulating low-altitude flight [AD-A254645] p 57 N93-12662

KLIMOVITSKY, V.

Thermoregulatory responses of rhesus monkeys during spaceflight p 154 A93-28706

KLINKHAMER, J. F. F. A body mass measurement device based on the

p 221 N93-24400 oscillation principle KLISS. M. H.

Design and evaluation of a payload to support plant growth onboard COMET 1

ISAE PAPER 9213891 p 308 A93-41547

KLISS, MARK

A novel membrane device for the removal of water vapor and water droplets from air |SAE PAPER 921322| p 304 A93-41484

KLIUSHNIKOVA, O. N.

Vestibulo-oculomotor responses under conditions of p 251 A93-35256 immersion hypokinesia

KLOKKER, M.

Influence of in vivo hypobaric hypoxia on function of lymphocytes, neutrocytes, natural killer cells, and cytokines p 280 A93-41123

KLUTE, GLEN K.

Anthropometric data from launch and entry suited test subjects for the design of a recumbent seating system [NASA-TM-104769] p 321 N93-29044

KLUTE, GLENN K.

A comparison of two Shuttle launch and entry suits Reach envelope, isokinetic strength, and treadmill tests [SAE PAPER 921154] p 293 A93-41337

Pilot investigation - Nominal crew induced forces in zero-g

ISAE PAPER 9211551 p 293 A93-41338 A study to explore locomotion patterns in partial gravity

environments ISAE PAPER 9211571 p 293 A93-41340

Methodology issues concerning the accuracy of kinematic data collection and analysis using the ariel performance analysis system

[NASA-CR-185689] p 34 N93-12211

A comparison of hand grasp breakaway strengths and bare-handed grip strengths of the astronauts, SML 3 test subjects, and the subjects from the general population [NASA-TP-3286] p 96 N93-16619

Evaluation of hole sizes in structures requiring EVA services as a means to prevent gloved-hand finger entrapment

[NASA-TM-104767]

p 234 N93-23129

Two techniques for measuring locomotion impact forces during zero G [NASA-TP-3305]

p 217 N93-23410 Evaluation of lens distortion errors in video-based motion

[NASA-TP-3266] p 258 N93-25736 Anthropometric survey of the astronaut applicants and

astronauts from 1985 to 1991 [NASA-RP-1304] p 321 N93-29324

KNAPP, ROBERT K.

Response to automated function failure cue - An

operational measure of complacency p 176 A93-27147

Human factors engineering: A key element of instrumentation and control system design

p 264 N93-25415 [DE93-006731]

KNELLER, EDWARD W.

The effects of field of view size on the control of roll p 349 A93-43722 motion

KNEPTON, J. C., JR.

Behavioral effects of high peak power microwave pulses: Head exposure at 1.3 GHz

[AD-A258136] n 120 N93-17985

KNEPTON, JAMES C.

Effects of laser glare on visual search performance p 180 A93-28158

KNIGHT, SHARON L. Stimulation of lettuce productivity by manipulation of

diurnal temperature and light p 327 A93-44879 Effects of incandescent radiation on photosynthesis, growth rate and yield of 'Waldmann's Green' leaf lettuce p 357 A93-46468

Growth and yield characteristics of 'Waldmann's Green leaf lettuce under different photon fluxes from metal halide or incandescent + fluorescent radiation

p 357 A93-46469

Minitron II system for precise control of the plant growth p 357

Effects of CO2 and photosynthetic photon flux on yield, gas exchange and growth rate of Lactuca sativa L Waldmann's Green' p 397 A93-52723

KNOTT, W. M.

Environmental monitoring and research at the John F Kennedy Space Center p 154 A93-28714 Controlled ecological life-support system - Use of plants for human life-support in space p 190 A93-28715

KNOTT, W. M., III Engineering verification of the biomass production

p 67 N93-13996 KNOX. GLENN

Phenytoin as a countermeasure for motion sickness in NASA maritime operations p 401 A93-55162 KNOX J.C.

Evaluation of the carbon dioxide removal assembly requirements for the Space Station Freedom in the Manned Tended Capability through Permanently Manned Capability configurations

[SAE PAPER 921231] p 297 A93-41405 KNOX, JOHN

Pressure, composition, and temperature control of cabin atmosphere on Space Station Freedom p 296 A93-41392 ISAE PAPER 9212161

KNUDSEN CARSTEN

Self-programming of matter and the evolution of roto-biological organizations

IDE92-0152441 n 5 N93-10628

KNUTH, SUSAN L.

Response of genioglossus EMG activity to passive tilt in men p 279 A93-41118

KOBAYASHI, KENSEI

An experimental approach to chemical evolution in p 74 A93-18008 submarine hydrothermal systems KOBAYASHI, T.

High-altitude pulmonary edema with thromboembolism p 278 A93-39709 KOBRICK, JOHN L.

The Environmental Symptoms Questionnaire (ESQ): Development and application

[AD-A264127] p 335 N93-30196 Effects of caffeine on mental performance and mood Implications for aircrew members p 372 N93-32269

KOCH, KENNETH L. Effects of scopolamine on autonomic profiles underlyin p 116 A93-24037 motion sickness susceptibility

KOEDA, MITSUHIRO

Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 KOEING, DAVID W.

Kinetic tetrazolium microtiter assay [NASA-CASE-MSC-21979-1]

n 82 N93-17049 KOGA, KAZUO

Effect of water immersion on muscle sympathetic nerve response during static muscle contraction

KOHL, R. Salivary total protein and experimental Coriolis p 383 A93-49573

KOHI RANDALLI

Beta-endorphin and arginine vasopressin following stressful sensory stimuli in man p 47 A93-16158 New pharmacologic approaches to the prevention of p 85 A93-17538 space/motion sickness Endocrinology of space/motion sickness

p 403 A93-55935

KOHN, GARY M.

Alcoholism and treatment in airline aviators - One company's results p 257 A93-35499

Flight-path estimation in passive low-altitude flight by

p 223 A93-32004 visual cues Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays

p 311 N93-27177

KOIKE, J.

Planetary quarantine in the solar system - Survival rates of some terrestrial organisms under simulated space conditions by proton irradiation p 378 A93-52408

KOIZUMI. T. High-altitude pulmonary edema with pulmonary

thromboembolism p 278 A93-39709 KOLESNIKOV, M. P.

Flavine-dependent processes in model prebiological p 372 A93-47125 Linear tetrapyrroles (phycobilins) in a model p 398 A93-53350 KOLKA, MARGARET A.

Validation of two temperature pill telemetry systems in humans during moderate and strenuous exercise p 124 N93-19072 IAD-A2590681

KOLODNEY, MATT

Conceptual design of ECLSS microgravity test beds [SAE PAPER 921164] p 294 A93-41346 p 294 A93-41346

KOLODNEY, MATTHEW

Zero-G life support for Space Station Freedom p 233 N93-22640

KOLOMIEVSKII, M. L.

The efficiency of a prophylactic-rehabilitational treatment of civil-aviation flight crews p 91 A93-18415 KONDAKOV, A. V.

The role of rheoencephalography in the practice of aviation medicine p 160 A93-27649

KONDAKOVA, L. N.

Engineering and technical support of experiments on board the Cosmos-2044 biosatellite p 77 A93-18419 KONDRASKE, GEORGE V.

Telerobotic system performance measurement Motivation and methods p 191 A93-291 p 191 A93-29114 KONOVALENKO, O. O.

The state of the endocrine system of rats of different age under conditions of immobilization stress and biomos p 242 A93-35671 administration

KOONCE, JEFFERSON M.

Visual augmentation and scene detail effects in flight training p 180 A93-27454

KOPANEV, V. I.

Application of contrasting temperatures as a method of preadapting pilots to the conditions of a hot climate p 45 A93-15166

K.F. Tsiolkovsky on the role of the human factor in the problem of space flight safety p 100 A93-18409

KOPPENSTEINER, C.

AUDIMIR - Directional hearing at microgravity p 159 A93-26570

KOPYDLOWSKI, K. M.

Effects of antiorthostatic suspension and corticosterone on macrophage and spleen cell function

p 153 A93-28693

KOPYLOVSKIJ, S. A.

Changes in the intensity of free-radical reactions in the organs of rats under hypokinetic stress, protected by the delta-sleep-inducing peptide and its tyrosine-containing p 378 A93-51101 analogue

KORDENKO, A. N.

KORIAK III A

Features of an ethanol effect in operators with different p 250 A93-35252 states of skin tissue basophils

Contractile properties of the calf triceps muscle in

humans exposed to simulated weightlessness p 45 A93-15168 Effect of prolonged antiorthostatic bed rest hypokinesia

on functional properties of the neuromuscular system in

p 116 A93-23151 KORINEVSKAYA, I. V.

The human EEG correlates during many-sided peripheral exposure to an alternating magnetic field

p 363 A93-46966

KORINEVSKIJ, A. V.

The human EEG correlates during many-sided peripheral exposure to an alternating magnetic field

p 363 A93-46966

Workload or situational awareness? TLX vs. SART for aerospace systems design evaluation

p 175 A93-27139

KORNILOVA, L. RNILOVA, L.
OPTOVERT: An AUSTROMIR 91 experiment -

Orientational effects from optokinetic stimulation p 159 A93-26571

Optovert: An AustroMir-1991 experiment. Orientational effects from optokinetic stimulation p 226 N93-24366 KORNILOVA, L. N.

The character of spontaneous oculomotor activity in weightlessness and during readaptation

p 248 A93-35219

Vestibulo-oculomotor responses under conditions of p 251 A93-35256 immersion hypokinesia

KOROL'KOV, V. I.

Oxygen regime in the frontal cerebral cortex of monkeys p 272 A93-40773 during a two-week space flight

KOROTAEV. M. M.

Effect of stays at medium-mountain altitude on the maintenance of the good health and high physical work capacity of cosmonauts over a prolonged period of time p 250 A93-35255

Adaptation of young pilots to new conditions of their work (Social-psychological aspects) p 256 A93-35220

KORSHUNOVA, V. A.

Some features characterizing the supply of astronauts with vitamins C, B1, B2, and B6 during nourishment from canned-food rations on long-term space flights

KORSUNSKII, S. B. Vestibulo-oculomotor responses under conditions of p 251 A93-35256 immersion hypokinesia

KORTSCHOT, H. W.

Barotrauma in Boeing 737 cabin crew p 278 A93-39706

KOSERENKO, O.

COGIMIR - A study of cognitive functions in p 174 A93-26569 Space and cognition - The measurement of behavioral functions during a 6-day space mission

p 249 A93-35231

KOSHCHEEVA, T. A. Peroxidative oxidation of lipids and chromosome aberrations in mice after repeated exposures to a helium-oxygen respiration mixture under hyperbaric p 243 A93-35672 conditions

KOSMO, JOSEPH

Enhanced softgoods structures for spacesuit micrometeoroid/debris protective systems

[SAE PAPER 921258] KOSMOLINSKII, F. P.

p 299 A93-41428

K.E. Tsiołkovsky and biomedical problems connected with space exploration; Lectures Devoted to K.E. Tsiolkovsky's Ideas, 25th, Kaluga, Russia, Sept. 11-14, 990, Transactions p 90 A93-18406 K.E. Tsiolkovsky on the problem of human survival in 1990. Transactions

extreme environments (On the earth and in space)

p 77 A93-18407

KOSSACK, MERRICK FRANK

Acquisition and production of skilled behavior in dynamic decision-making tasks

|NASA-CR-192361| p 181 N93-20908

KOSSLYN, STEPHEN M

Neuropsychological components of object identification FAD-A2614491

p 259 N93-26347 KOSTKIN, V. B.

Functional state of the central nervous system of guinea pigs after a prolonged stay in artificial atmospheres with p 75 A93-18287 different gas compositions

KOTULAK, JOHN C. The effects of pyridostigmine bromide on visual performance p. 87 A93-18034

p 87 A93-18034 In-flight field-of-view with ANVIS

[AD-A259905]

p 235 N93-23992 KOVAC R

Influence of microgravity on immune system and genetic information Influence of microgravity on immune system and genetic information p 220 N93-24370

KOVACH, PETER

CREWCUT - A new tool for predicting human performance in conceptual systems p 178 A93-27179

KOVALENKO, E. A.

The problem of oxygen regimen in extreme conditions p 160 A93-27685

Oxygen tension and water-soluble products of ligid peroxidation in blood of volunteers in hypobaric hyperoxial p 169 A93-28751

KOWLER. EILEEN

Eye movements and visual information processing p 24 N93 10278 [AD-A250198]

Eye movements and visual information processing IAD-A2599551 p 225 N93-24297

KOZAK, L. M.

Investigation of individual and typological features of an operator's nervous system under different work regimes p 339 A93-43024

KOZLOV. S. B.

Spontaneous and evoked activity of neurons in the parietal associative cortex of cats during motion sickness p 239 A93-35211

KOZLOV. V. V.

Psychophysiological factors which impair professional reliability of a pilot in emergency situations p 129 A93-23150

KOZLOVA, V. G. Vestibulo-oculomotor responses under conditions of p 251 A93-35256 immersion hypokinesia

KOZLOVSKAIA. I. B.

Effect of prolonged antiorthostatic bed rest hypokinesia on functional properties of the neuromuscular system in p 116 A93-23151 humans

KOZLOVSKAYA, I.

Development and implementation of the MotoMir experiment on the Mir Space Station o 220 N93-24363

KOZLOVSKAYA, I. B.

Eye-head-arm coordination and spinal reflexes in weightlessness p 236 N93-24362

KOŻLOVSKIJ, A. P.

New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine p 279 A93-40774 medical examination

KOZYAVKIN, SERGEJ A.

DNA topoisomerase V is a relative of eukaryotic topoisomerase I from a hyperthermophilic prokaryote p 399 A93-55580

KRAEMER, M.

Effects of medium blood alcohol levels on pilots' performance in the Sea King Simulator MK-41

p 125 N93-19683

27 years armed forces aerospace pathology and toxicology in the Federal Republic of Germany: Development, current status, trends and challenges p 126 N93-19696

Significance of histological postmortem findings in pilots killed in military and civil aircraft accidents in Germany p 126 N93-19697 (West): A 25-year-review

KRAH, REGIS

DNA topoisomerase V is a relative of eukaryotic topoisomerase I from a hyperthermophilic prokaryote p 399 A93-55580

KRAMER, ARTHUR F.

Cognitive function at high altitude p 386 A93-52505 KRANTZ, JOHN H.

Visibility of transmissive liquid crystal displays under p 103 A93-19990 dynamic lighting conditions KRASIL'NIKOV. G. V.

Equivalent dose of cosmic rays at representative points of human-body models p 248 A93-35223 KRASNOV, I. B.

Quantitative autoradiographic analysis of muscarinic cholinergic and GABAA (benzodiazepine) receptors in the forebrain of rats flown on the Soviet Biosatellite COSMOS p 156 A93-28743

Hematologic status of rats born and grown in a hypergravity environment p 239 A93-35212

KRASSNIGG, F. Sperm motility under conditions of weightlessness

p 156 A93-28730 KRATSCHMANN, C.

Implementation of biological elements in life support systems - Rationale and development milestones p 390 A93-49302

KRAUHS, J. M.

Metabolic changes observed in astronauts p 84 A93-17535

KRAUS, E. T. Alteration in human mononuclear leucocytes following

p 165 A93-28705

KRAUSE, D.

Mechanisms of microwave induced damage in biologic materials

IAD-A2557991 p 42 N93-14648

KRAUSKOPF, JOHN

Higher order mechanisms of color vision LAD-A2563691 o 60 N93-15329

KRECIC, M. E.

Aminohydroxybutane bisphosphonate and clenbuterol prevent bone changes and retard muscle atrophy respectively in tail-suspended rats p 271 A93-39703

KREGEL, KEVIN C. Tissue-specific noradrenergic activity during acute heat p 323 A93-42193 stress in rate

KREUZBERG, K.

Bioregenerative life support as self-sustaining ecosystem in space p 231 A93-32073 CEBAS-Aquarack: An artificial aquatic animal plant ecosystem as a tool for basic research in the Columbus Space Station p 210 N93-24401

KREWSKI, D.

Cancer risk assessment with intermittent exposure p 171 A93-28766

KRIPPENDORE B B

Distinguishing unloading- versus reloading-induced changes in rat soleus muscle p 157 A93-28763

KRISHTALKA, LEONARD

The earliest fossil evidence for sexual dimorphism in p 152 A93-27775

First skulls of the early Eocene primate Shoshonius cooperi and the anthropoid-tarsier dichotomy p 202 A93-32670

Revision of the Wind River faunas, early Eocene of central Wyoming, X - Bunophorus (Mammalia. p 203 A93-33026 Artiodactvla)

Revision of the Wind River faunas, early Eccene of central Wyoming. IX - The oldest known hystricomorphous rodent (Mammalia: Rodentia) p 328 A93-44903 KRISTAL-BONEH, E.

Predicting increases in skin temperature using heat stress indices and relative humidity in helicopter pilot p 167 A93-28729

KRISTENSEN, M. S.

Arterial pulse pressure and vasopressin release in humans during lower body negative pressure p 360 A93-47096

KRITSKII, MIKHAIL S.

Flavoproteins as natural prototypes of molecular electronic devices with photocontrolled conductivity

p 1 A93-11199

KRIVENKO, A. I. The state of brain oxygenation in guinea pigs breathing

high-density gas mixtures KRIVOSHCHEKOV, S. G. p 76 A93-18294

Human biorhythms following interregional travel (with reference to Novosibirsk-Vladivostok flights)

KROCK, L. P.

Aerobic fitness. I - Response of volume regulating hormones to head-down tilt p 167 A93-28721 KROCK, LARRY P.

Electromyographic activity while performing the anti-G

straining maneuver during high sustained acceleration p 47 A93-16155 Prediction of maximal oxygen uptake from submaximal

exercise testing in aerobically fit and nonfit men p 385 A93-52304

KROIS, FAUL A.

Air Traffic Control facility lighting p 188 A93-27167 KRONAUER, R. E.

Colour is what the eye sees best p 159 A93-26245 The effects of luminance boundaries on color p 22 N93-11841 I AD-A250705 I

KROPP. J.

Effects of head-down tilt and saline loading on body weight, fluid, and electrolyte homeostasis in man

p 163 A93-28685

KROPP, MICHAEL A.

Carbonaceous chondrites and the origin of life p 412 A93-55997

KROTOV, V. P.

Hemodynamics in monkeys during antiorthostatic hypokinesia at angles of -6 and -20 deg

p 241 A93-35259 Dynamics of the central and peripheral circulation of active rats on the first day of antiorthostatic hypokinesia (The role of training) p 242 A93-35261

Oxygen regime in the frontal cerebral cortex of monkeys during a two-week space flight p 272 A93-40773

KRUEGER-ANDERSON, GRETCHEN M.

Flight director information and pilot performance in instrument approaches

I AD-A258186 I p 131 N93-17857

KRUIJER, WIEBE

Altered gravity conditions affect early EGF-induced signal transduction in human epidermal A431 cells p 376 A93-49214

KRUK. R. V.

Simulator sickness experience in simulators equipped with fiber optic helmet mounted display systems

[AIAA PAPER 92-4135] p 136 A93-24490 KÙBARKO, A. I.

The role of serotonin and histamine in increasing the resistance of the organism to certain extreme conditions p 324 A93-43034

KUBO. K.

High-altitude pulmonary edema with pulmonary thromboembolism p 278 A93-39709

KUBO. T. Neuropharmacology of motion sickness and emesis p 271 A93-39711 A review

Motion sickness induced by sinusoidal linear acceleration in rats p 272 A93-39712

KUBOTA, N. Research and development of sensing and manipulation

techniques for space robotics on a testbed [AIAA PAPER 93-0794] p 136 p 136 A93-24873

KUCERA, RICHARD F. Metabolic factors influencing myocardial recovery from

acidosis (CiC3) IAD-A2523761 p 14 N93-10796

KÙCHAR, JAMÉS

Hazard alerting and situational awareness in advanced air transport cockpits p 61 A93-14377

KUCHAR JAMES K. An exploratory study of plan-view terrain displays for

p 289 A93-39573 KUDRIAVTSEVA. I. N.

Dynamics of normalization of some behavioral and neurochemical disturbances in rats caused by the deprivation of the paradoxical sleep stage

p 111 A93-23074

KUEHN, G. I.

Engineman stress and fatigue: Pilot tests

I PB93-175008 I KUEHNEL CHRISTIAN

p 351 N93-29675 Swimming behavior of the unicellular flagellate, Euglena gracilis, in simulated and real microgravity

p 151 A93-26549

KUHL, D. E.

New techniques for positron emission tomography in the study of human neurological disorders [DE92-015353] p 23 N93-11873

KUHL, K. D. The influence of military low-altitude flight noise on the inner ear of the guinea pig. I - Hearing threshold measurements p 377 A93-49555

KULCINSKI, G. L.

Potential of derived lunar volatiles for life support p 67 N93-13998

KULEV, A. P.

Functional state of the cardiovascular system of the cosmonauts of the sixth primary mission on the Mir p 249 A93-35238 station

KULIKOV, V. P.

Features of the effect of hypokinesia on cardiac activity in rats with high and low spontaneous motor activity p 240 A93-35224

KULINICHEVA, M. M.

Early andrological effects in rats under the combined p 242 A93-35263 effect of irradiation and vibration

KULL, FREDERICK G., JR.

Line-of-sight determination in real-time simulations [AIAA PAPER 93-3567] p 406 A93-52 p 406 A93-52666 KULL ROBERT

Anaerobic treatment of organic wastes from Controlled Ecological Life Support Systems [SAE PAPER 921272] p 301 A93-41442 KUMAR, ANOOPA

Altered immunological response in mice subjected to stress and exposed to lungal spores

|SAE PAPER 921215| p 274 A93-41391

KUMAR, D.

A physico-chemical study of some areas of fundamental significance to biophysics

[DE92-019917] p 40 N93-13034

A physico-chemical study of some areas of fundamental significance to biophysics

IDE92-0199161 p 40 N93-13083

KUMAR, K. S.

Recommended radiobiological studies Lunar-Based Chemical/Biological/Medical Analysis Laboratory (LBCAL) p 39 A93-17429

KUMAR. K. V.

The influence of prior exercise at anaerobic threshold on decompression sickness p 8 A93-10333

Time to detection of circulating microbubbles as a risk factor for symptoms of altitude decompression sickness p 46 A93-16153

KUMAR, K. VASANTHA

Issues on human acceleration tolerance after long-duration space flights

NASA-TM-1047531 p 334 N93-29651

KUMEGAWA, M.

Effect of dexamethasone on proliferating osteoblasts -Inhibition of prostaglandin E2 synthesis, DNA synthesis, and alterations in actin cytoskeleton

p 155 A93-28728

KUNG, E. Y.

Pyrolysis of vegetation by brief intense irradiation p 324 A93-42915

KUNYAEV, V. YU.

Oxygen regime in the frontal cerebral cortex of monkeys during a two-week space flight p 272 A93-40773

KUO, ADDISON

SHARC: Space Habitat, Assembly and Repair Center INASA-CR-1920311 p 140 N93-18153

KUO, ARTHUR DANIEL

Visualization techniques for analyzing control of human movement: Affine mappings between multi-dimensional p 353 N93-30204 spaces

KUO, K. C.

Clinical and diagnostic requirements - Biochemical exploration of amino acid metabolism, tRNA turnover and lymphocyte activation p 49 A93-17442

KUOPPA, K. Use of RNA hybridization in the diagnosis of a case of

ulceroglandular tularemia IFOA-B-40422-4.41 p 275 N93-28212

KUPERMAN GILBERT G

Design of the man-machine interface for an automatic p 348 A93-42843 KUPRA, DEBRA

Health maintenance facility system effectiveness testing

[NASA-TM-104737]

p 372 N93-32328 KUPRIIANOV, V. A.

Investigation of hemodynamics sympatheticoadrenal system activity in air traffic controllers p 247 A93-35209 during their work

KURIHARA, YOSHINORI

Relationship between alcohol drinking habit and blood pressure changes during the period of 25 years on JASDF p 333 A93-45321 aged pilots

KURMAZENKO, EHDUARD A.

Functions simulation model of integrated regenerable life support system

|SAE PAPER 921201|

p 295 A93-41377

KUROKAWA, HIDEAKI

Experimental and theoretical study on membrane distillation using thermopervaporation [SAE PAPER 921397] p 309 A93-41554

KUROSAKI, YUKO S.

Flight crew sleep during multiple layover polar flights p 380 A93-49226

KURUP, VISWANATH P.

Altered immunological response in mice subjected to stress and exposed to fungal spores p 274 A93-41391 [SAE PAPER 921215]

KUUSELA, TIMO

Degeneration of cervical intervertebral disks in fighter pilots frequently exposed to high $+\,\mathrm{Gz}$ forces

KUZ'MIN, A. S.

The quality of an operator's work on a flight simulator under conditions of thermal discomfort

p 45 A93-15172

KUZ'MINA. G. I.

Electromyographic patterns of the thermoregulatory activity of motor units during cooling of the organism p 360 A93-46968 KUZNETS, E. I.

K.E. Tsiolkovsky and biomedical problems connected with space exploration; Lectures Devoted to K.E. Tsiolkovsky's Ideas, 25th, Kaluga, Russia, Sept. 11-14, 1990, Transactions p 90 A93-18406 Approaches to solving the problem of decompression

safety of cosmonauts on their flights to Mars p 90 A93-18410

KVAMSOF K

Changes in food and energy intake in military aircrew p 368 N93-32246

KWETNANSKI, R.

Investigation of fluid-electrolyte metabolism and its hormonal regulation during the second joint Soviet-French space mission p 247 A93-35207

KYRIAKOS, K.

Correlation of serum alpha sub 1 antitrypsin with cigarette smoking and pulmonary function status in Greek p 22 N93-11318 pilots, for a ten year period Lipidemic profile of Hellenic Airforce officers

p 362 N93-32250

Correlation of life-style and dietary concomitants of p 369 N93-32256 Greek pilots with serum analytes

L'VOV, NIKOLAI P.

Flavoproteins as natural prototypes of molecular electronic devices with photocontrolled conductivity

LABOURDETTE, X.

Development of a 500 hPa shoulder joint for the European EVA Space Suit System

|SAE PAPER 921257|

p 299 A93-41427 LACEY, JAMES C., JR.

Experimental studies on the origin of the genetic code and the process of protein synthesis - A review update

LACKNER, J. R.

Influence of gravitoinertial force level on vestibular and visual velocity storage in yaw and pitch

p 165 A93-28701 Gravitoinertial force level affects the appreciation of limb position during muscle vibration p 169 A93-28744

Spatial orientation in weightless environments p 388 A93-49563

LACKNER, JAMES R.

Spatial orientation, adaptation, and motion sickness in real and virtual environments p 382 A93-49403

LACOLLEY, P. J. Microgravity and orthostatic intolerance - Carotid hemodynamics and peripheral responses

p 278 A93-39716

LADISCH, MICHAEL R. Biomass productivity and sustainability of a

bioregenerative life-support system ISAE PAPER 921359] p 307 A93-41518

LAFORCE, SOREN

A demonstration of motion base design alternatives for the National Advanced Driving Simulator p 236 N93-24490 I NASA-TM-103881 I

LAI. STEVE

Timing considerations of Helmet Mounted Display p.233 A93-33449 performance

LAING, ALAN

Advanced civil airliner cockpit research at RAE

LAIRD, JOHN E.

Dimensions of complexity in learning from interactive instruction p 191 A93-29111

LAITINEN, J. T.

The prediction of the adaptation of circadian rhythms p 278 A93-39714 to rapid time zone changes

LAKATTA, EDWARD

Cardiovascular responses to lower body negative pressure in trained and untrained older men p 115 A93-21686

LAKE, JAMES A.

DNA topoisomerase V is a relative of eukaryotic topoisomerase I from a hyperthermophilic prokaryote p 399 A93-55580

LALIBERTE, M.-F.

Subjective and behavioral effects associated with repeated exposure to narcosis

Toxicokinetics of inhaled bromotrifluoromethane (Halon

1301) in human subjects p 278 A93-39705 LAM. CHI-KIN

Adaptive autonomous target cuer p 148 N93-19784

LAM, KWOK-WAI

Investigation of laser-induced retinal damage p 338 N93-31094 IAD-A2640961

LAMB, THEODORE A.

Introduction to training decisions modeling technologies: The training decisions system

IAD-A2498621 p 27 N93-12252

LAMBECK, ROBERT W.

Characteristics and requirements of robotic manipulators p 182 A93-27003 for space operations

LAMBIN. M.

Preliminary analysis of sensory disturbances and behavioral modifications of astronauts in space

p 130 A93-25207

LAMPE, L.

Effects of simulated microgravity (HDT) on blood fluidity p 44 A93-14972 LAN, JÍNGQUAN

Effects of antimotion sickness drug mixture B on ultrastructures of cerebral and cerebellar cortexes in p 10 A93-13704 suspended rabbits

LAN'SHINA O. F.

The problem of oxygen regimen in extreme conditions p 160 A93-27685

Oxygen tension and water-soluble products of lipid peroxidation in blood of volunteers in hypobaric p 169 A93-28751

LANCASTER, JACK L.

Proceedings of Workshop 1: The Human Brainmap Database [AD-A260720] p 258 N93-25654

LAND, MICHAEL F.

p 81 N93-16805

p 163 A93-28686

p 306 A93-41511

Predictable eye-head coordination during driving p 57 A93-16373

LANDOLT, J. P. Effects of long-term weightlessness on roll p 279 A93-39725 circularvection

LANE, HELEN W. Nutrition

LANE, L. Effect of head-down bedrest on blood/plasma density after intravenous fluid load p 163 A93-28687

LANE. L. D.

Effects of head-down tilt for 10 days on the compliance f the leg p 162 A93-28680 of the lea The effects of a 10-day period of head-down tilt on the cardiovascular responses to intravenous saline loading

LANE, LYNDA D.

Role of atrial natriuretic peptide in systemic responses to acute isotonic volume expansion p 44 A93-14968

Profile analysis of simulator sickness symptoms -Application to virtual environment systems

p 381 A93-49399 Training high performance skills using above real-time training

p 225 N93-24192 [NASA-CR-192616] LANG. R. E.

Diuresis and natriuresis following isotonic saline infusion in healthy young volunteers before, during, and after

p 163 A93-28688 LANGE, KEVIN E. Modeling of membrane processes for air revitalization

[SAE PAPER 921352]

and water recovery

LAPA, V. V. The prospects for the improvement of medical monitoring of the health of flight personnel in a military p 10 A93-12969

LAPAEV, E. V. Subjective reactions and objective assessment of the auditory and ventilatory functions of the middle ear during changes in atmospheric pressure D 45 A93-15174 Occupational health problems in aviation medicine

p 252 A93-36743 LAPRISE, BRAD Evaluation of two microclimate cooling air vests on a heated mannequin

AD-A259410]

LAPSHIN, V. P. Validation of the use of the helium-neon laser in the medical rehabilitation of patients with atrophy

p 248 A93-35228

p 194 N93-21269

Design and preliminary testing of a membrane based water recycling system for European manned space missions

ISAE PAPER 9213961 LARIMER, F. W.

p 309 A93-41553

p 246 N93-26587

Development of resonance ionization spectroscopy for genome mapping and DNA sequencing using stable isotopes as DNA labels

[DE93-007815] LARIMER, JAMES

Human visual performance model for crewstation p 182 A93-26887 Studies of the field-of-view resolution tradeoff in p 232 A93-33443 virtual-reality systems

Visualization and modeling of factors influencing visibility LEAHY, R. M. G-load effects and efficient acoustic parameters for Adaptive filters for monitoring localized brain activity from robust speaker recognition in computer-aided crewstation design surface potential time series |SAE PAPER 921135| n 292 A93-41323 LEGGE GORDON E LARINA, I. M. p 217 N93-22774 Psychophysical analyses of perceptual representations IDE93-0037951 Principles of the organization of calcium metabolism Biomagnetic localization from transient quasi-static p 7 A93-10124 LEHNERT, BRUCE E. events LARINA, O. N. IDE93-0073281 Potential health hazards from thermal degradation o 253 N93-25186 Protein composition of the blood plasma of cosmonauts events - Particulate vs. gas phase effects LEAKAKOS, TINA p 249 A93-35243 p 282 A93-41546 after lengthy orbital flights |SAE PAPER 921388| Modification of yield and chlorophyll content in leaf Metabolism in cosmonauts - Results of biochemical The acute inhalation toxicity of pyrolysis products of lettuce by HPS radiation and nitrogen treatments blood analyses for crew members of seven primary halon 1301 p 328 A93-44880 p 250 A93-35254 missions on the Mir orbital station p 254 N93-25629 [AD-A260874] LEAKE, STEPHEN LARISH, JOHN F. Evaluation of NO(x)-induced toxicity Recent developments at the Goddard Engineering Test I AD-A261034 J Active control versus passive observation in a simulated p 283 N93-28122 p 192 A93-29115 Red p 179 A93-27196 LEHNERT, H. LEARMOUNT DAVID Relationship between pituitary ACTH content and LAROCHELLE, F. T. Virtual landings p 410 A93-54868 Program development for exercise countermeasures hypothalamic catecholamines in the rat LEAS, S. p 203 A93-33028 ISAE PAPER 9211401 p 292 A93-41327 Civil aviation and cardiology - Admission rules and LAROSA, ANGELA LEHNERT, HENDRIK follow-up of the technical flying personnel of TAP-Air Increased release of brain serotonin reduces Interaction of various mechanical activity models in regulation of myosin heavy chain isoform expression Portugal p 164 A93-28699 vulnerability to ventricular fibrillation in the cat LEBEDEV, A. N. p 151 A93-26500 p 327 A93-44184 Dynamics of electroencephalographic indices during LEINENWEVER, ROGER W. LARROQUE, P. p 402 A93-55333 acute hypoxia Low-cost monochrome CRT helmet display Flight above a virtual world p 145 N93-19766 p 228 A93-30061 LEBEDEVA, I. M. LARSEN, RONALD L. Low-cost color LCD helmet display Functional state of the vegetative nervous system in Architecture of autonomous systems p 228 A93-30062 undergoing high-altitude adaptation and [NASA-CR-192974] p 266 N93-26047 Low-cost helmet-mounted displays readaptation to 760 m above sea level LASKEY, KATHRYN B. IAD-A2626161 p 317 N93-28479 D 44 A93-15165 Real-time expert system interfaces, cognitive processes, LEBLANC, ADRIAN LEIRER, V. and task performance - An empirical assessment Influence of aging and practice on piloting tasks Can the adult skeleton recover lost bone? p 394 A93-52503 p 286 A93-39708 p 93 A93-20656 LATHERS, CLAIRE M. LEIRER, V. O. Prevention of space flight induced soft tissue Orthostatic function during a stand test before and after Aging, expertise, and narrative processing calcification and disuse osteoporosis head-up or head-down bedrest p 84 A93-17530 p 180 A93-28724 p 214 A93-31545 Acute hemodynamic response to weightlessness during LEIRER, VON LEBLANC, ADRIAN D. parabolic flight p 86 A93-17547 Regional changes in muscle mass following 17 weeks The time-course of alcohol impairment of general Cardiovascular adaptation to spaceflight p 93 A93-20039 aviation pilot performance in a Frasca 141 simulato of hed rest p 384 A93-52299 p 86 A93-17550 LECROART, JEAN-LOUIS LEITER, JAMES C. LATTIMORE, MORRIS R. Intracardiac hemodynamics in man during short periods Response of genioglossus EMG activity to passive tilt p 117 A93-24044 The use of extended wear contact lenses in the aviation of head-down and head-up tilt p 279 A93-41118 in men environment: An Army-wide study LEDOUX, E. [AD-A260938] Comparison of spinal health indicators in predicting LEJUN, SHAO p 255 N93-26218 Incorporating robot vision in tele-autonomous systems LAU, VICKITT spinal status in a 1-year longitudinal study p 184 A93-27031 p 216 A93-32786 A monitoring and control system for complex man-machine systems: Preliminary design LEDYARD, KATHLEEN M. LENNON, ROBERT L. p 70 N93-14951 Marine microbial production of dimethylsulfide from Limited heat transfer between thermal compartments during rewarming in vasoconstricted patients dissolved dimethylsulfoniopropionate LAUBER, ERICK p 88 A93-18036 INASA-CR-1932781 Human factors design principles for instrument approach p 330 N93-30665 LENOROVITZ, DAVID R. procedure charts. Volume 1: Readability Operator vision aids for space teleoperation assembly Air Traffic Control facility lighting p 188 A93-27167 [AD-A2572341 p 104 N93-15968 p 33 N93-11981 and servicing LENTZEN, R. LAUGHERY, RON Mir 1992 operations and crew training CREWCUT - A tool for modeling the effects of high Sabatier carbon dioxide reduction system for Space n 226 N93-24352 p 178 A93-27180 workload on human performance Station Freedom LEON, H. A. LAURENT, S. [SAE PAPER 921189] p 294 A93-41368 Rett syndrome - Stimulation of endogenous biogenic Microgravity and orthostatic intolerance - Carotid LEE, M. GENE p 164 A93-28697 amines hemodynamics and peripheral responses Integrated oxygen recovery system p 278 A93-39716 LEONG, H. M. [NASA-CR-192343] p 234 N93-22663 Mental workload assessment in the cockpit: Feasibility LAVECCHIA, HELENE M. Integrated oxygen recovery system Application and validation of workload assessment of using electrophysiological measurements, phase p 267 N93-26088 [NASA-CR-192982] LAD-A2541381 p 25 N93-10662 techniques LÉE. MARK D. IAD-A2645751 n 366 N93-32012 Physiological indices of mental workload Contextual change and skill acquisition in visual search IAD-A2616921 p 260 N93-26391 LAVERGNE, C. - Does the rate of change affect performance? Contribution of the analysis of ocular activity p 178 A93-27187 LEONIDA, ANDREI (complementary to the electroencephalographic analysis) A low pressure electrolyzer for the next generation Disruption and maintenance of skilled visual search as submarine to the detection of low vigilance in instances of piloting a function of degree of consistency p 389 A93-52501 [SAE PAPER 921125] p 127 N93-19708 p 291 A93-41316 a vehicle Automatic information processing and high performance skills: Individual differences and mechanisms of LEONT'EV, V. G. LAWRENCE, DALE A. Optimizing dynamic transparency in teleoperator performance improvement in search-detection and Changes in the osmolality, monovalent cation concentration, and protein structure of blood plasma under architectures complex tasks extreme conditions [AAS PAPER 92-056] p 392 A93-50596 p 100 N93-17684 p 200 A93-31188 LEE. SUKHAN LEPANTO, JANET A. LAWTON, T. B. Interactive and cooperative sensing and control for Image enhancement filters significantly improve reading Human-in-the-loop evaluation of RMS Active Damping performance for low vision observers advanced teleoperation p 391 A93-49443 Augmentation p 393 A93-51460 Intelligent sensing and control for advanced [AIAA PAPER 93-3875] p 167 A93-28723 p 409 A93-54158 teleoperation LESKIW, M. J. LAXAR, KEVIN Conspicuity of aids to navigation. Part 1: Temporal Man-machine cooperation in advanced teleoperation Effect of spaceflight on human protein metabolism p 366 N93-32106 p 360 A93-47097 patterns for flashing lights Interactive and cooperative sensing and control for AD-A2646261 p 341 N93-30426 LESSER, RONALD P. p 366 N93-32108 advanced teleoperation Automatic detection of seizures with applications LAZARETH, OTTO W. LEE, TZE-SAN p 254 N93-25592 A computer model to determine the primary contributors Analysis of the lettuce data from the variable pressure LESTER, LAURIE S. to relative radiation dose received by astronauts growth chamber at NASA Johnson Space Center: A p 43 A93-13935 The effects of an antijet lag diet p 370 N93-32263 p 245 N93-26069 three-stage nested design model VASHOV, M. M. LAZCANO, A. LEE, W. D. Comets and the formation of biochemical compounds Significance of a comparison of results of caloric and Hybrid oxygen system p 109 A93-17977 p 248 A93-35226 on the primitive earth - A review p 317 N93-28464 vestibulometric rotation tests [AD-A262417] LEVIN, S. A. LAZERGES. M. LEGENDRE, A. J. Effects of unilateral selective hypergravity stimulation Mathematics and biology: The interface, challenges and Adaptive strategies of remote systems operators o 386 A93-52407 opportunities exposed to perturbed camera-viewing conditions LEACH, CAROLYN S. p 187 A93-27155 IDE92-0412071 p 82 N93-17359

Otolithic illusions on takeoff and visual information:

p 134 N93-19681

Reflections in connection with an air accident case

LEVINE. B.

edema

IAD-A2569591

Nifedipine for treatment of high altitude pulmonary

p 95 N93-16187

Metabolic changes observed in astronauts

Changes in total body water during spaceflight

LEGER. A.

p 84 A93-17535

p 86 A93-17548

PERSONAL AUTHOR INDEX **LOBASCIO, CESARE**

LEVY, B. J.

Microgravity and orthostatic intolerance - Carotid hemodynamics and peripheral responses

p 278 A93-39716

LEVY GERHARD

Pharmacodynamic aspects of spaceflight p 73 A93-17541

LEWINE, J. D.

Functional MRI studies of human vision on a clinical imager

IDE92-0174481 p 49 N93-12566

LEWIS, A. G.

Gravity as a factor in the orientation and vertical migration of marine zooplankton p 158 N93-21098

LEWIS, D. H.

An automated version of the dichotic listening test: Hardware, software, and procedural details

p 120 N93-17895 IAD-A2581141

LEWIS, EDWIN R.

Vestibular afferent responses to microrotational stimuli p 328 A93-44930 Hair cell tufts and afferent innervation of the bullfrog

crista ampullaris p 329 A93-44931 Micromotional studies of utricular and canal afferents [NASA-CR-192703] p 207 N93-22800

LEWIS, J. L.

Man-systems distributed system for Space Station Freedom p 312 N93-27788

LEWIS, JOHN S

Carbonaceous chondrites and the origin of life p 412 A93-55997

LEWIS, M. L.

Cytokine secretion by immune cells in space

p 153 A93-28694

LEWIS, MARIAN L.

Materials dispersion and biodynamics project research p 207 N93-22651 LEWIS, P. S.

A weighted iterative algorithm for neuromagnetic imaging

[DE92-040244] p 51 N93-13522 Biomagnetic localization from transient quasi-static

IDE93-0073281 p 253 N93-25186

LEWIS, ROBERT H.

Human safety in the lunar environment

p 105 N93-16867

LEWIS, S. M. Fundamental diagnostic hematology: Anemia (second edition)

[PB93-188662] p 338 N93-31140 Fundamental diagnostic hematology: The bleeding and clotting disorders (second edition)

PB93-188670! p 338 N93-31158

LEYSSAC, PAUL P.

Renal hemodynamics, tubular function, and response to low-dose dopamine during acute hypoxia in humans p 332 A93-44180

LEZOTTE, DENNIS C.

Prospective assessment of stereoscopic visual status and USAF pilot training attrition p 116 A93-24039

LI. FEIYUE

Centralized, decentralized, and independent control of a flexible manipulator on a flexible base p 231 A93-31517

LI. FENG-ZHI

Effects of cold injury on serum angiotensin converting enzyme activities in rats p 199 A93-30444

LI. NORMAN N.

Life support systems

IAAS PAPER 91-3201 p 409 A93-54308

LI. SHU-CHUN

The responses of cardiovascular during head-up tilt plus p 9 A93-11690 lower body negative pressure p 9 A93-11690 Changes of cAMP and cGMP content in plasma and

urine before and after parallel swing stimulation p 213 A93-30435

Radiation dose measurement and biostack experiment p 327 A93-44845 in biocabin on board satellite

Changes of cAMP and cGMP content in plasma and urine before and after parallel swing stimulation p 213 A93-30435

LI, YING-ZHONG

Comparison between VDV and a(rms) using simulated p 91 A93-19991 impulsive vibration

LI. ZHENJIÈ

The effects of exposure to 50 mT ELF magnetic fields for 96 h on rabbit EEG p 4 A93-13712 LIAMIN, V. R.

Functional state of the cardiovascular system of the cosmonauts of the sixth primary mission on the Mir p 249 A93-35238 station

LIAN, L.

Changes in some lifestyle parametres in Norwegian pilots as students, and after 6 and 12 years of service p 370 N93-32261

LIANG, LI-NUO

Anaerobic microbial transformation of aromatic hydrocarbons and mixtures of aromatic hydrocarbons and halogenated solvents

IAD-A2556961 p 42 N93-14557 LIBERT, J. P.

Nocturnal pituitary hormone and renin profiles during p 387 A93-52619 chronic heat exposure

LIBLONG, BREEN

A monitoring and control system for complex man-machine systems: Preliminary design p 70 N93-14951

LICHTENBERG, BYRON K.

Space motion sickness monitoring experiment p 403 A93-55941 An on-orbit viewpoint of life sciences research p 206 N93-22629

LICINA, JOSEPH R.

Fatal mishap report - First SPH-4B flight helmet recovered from a U.S. Army helicopter mishap

p 393 A93-52308 Test and evaluation report of the Physio Control Defibrillator/Monitor, Model LifePak(tm) 6s p 52 N93-14103

[AD-A255691] LIEBERMAN, D.

Identification of a critical period for motor development in neonatal rats p 157 A93-28764

LIEBERMAN, HARRIS R.

Effects of caffeine on mental performance and mood: Implications for aircrew members p 372 N93-32269 LIEDL, KLAUS R.

Evaporation cycle experiments - A simulation of salt-induced peptide synthesis under possible prebiotic p 354 A93-43792 conditions

Implementation of biological elements in life support systems - Rationale and development milestones p 390 A93-49302

LIGGETT, KRISTEN K.

3-D target designation using two control devices and p 408 A93-53120 an aiding technique LIGHTFOOT, J. T.

Cardiovascular responses to lower body negative pressure in trained and untrained older men

p 115 A93-21686

LILENKO, S. V.

Significance of a comparison of results of caloric and vestibulometric rotation tests p 248 A93-35226

LILIENTHAL, MICHAEL G.

Profile analysis of simulator sickness symptoms -Application to virtual environment systems

p 381 A93-49399 Simulator sickness p 403 A93-55944

Quantification of human responses

p 340 N93-29564 LIMERO, THOMAS

First entry operations for spacecraft SAE PAPER 9213841

p 308 A93-41542 LIMERO, THOMAS F.

Setting Spacecraft Maximum Allowable Concentrations for 1 hour or 24 hour contingency exposures to airborne

chemicals [SAE PAPER 921410] p 310 A93-41564

The role of Environmental Health System air quality monitors in Space Station Contingency Operations

|SAE PAPER 921414| p 310 A93-41565 LIN. CHIN

Overview of NASA's 1991 Life Support Systems Analysis Workshop [SAE PAPER 921118] p 290 A93-41310

LIN, T. D.

Concrete lunar base investigation p 107 N93-17445 LIN, XIAN-ZHE

Results of experiments on the exploration of genetic effect of rocket flight factors with Drosophila p 1 A93-11691 melanogaster

LINCOLN, WILLIAM E. Flight director information and pilot performance in instrument approaches

p 131 N93-17857 LAD-A2581861 LIND, JUDITH H.

Agent-based pilot-vehicle interfaces - Concept and p 262 A93-34986 prototype Human factors problems for aircrew-aircraft interfaces

 Where should we focus our efforts? p 264 A93-37300 Human factors problems for aircrew-aircraft interfaces:

Where should we focus our efforts? p 144 N93-19759 LINDBERGH, CHARLES

Concrete lunar base investigation p 107 N93-17445

LINDEIS, ANN-ELISE

The effects of hypoxia on auditory reaction time and p 47 A93-16156 P300 latency

LINDSETH, GLENDA N.

Assessing for preflight predictors of airsickness p 8 A93-10335

LINDSETH, PAUL D.

Assessing for preflight predictors of airsickness p 8 A93-10335

LINTERN. GAVAN

Transfer effects of scene content and crosswind in landing instruction p 62 A93-15665 Visual augmentation and scene detail effects in flight p 180 A93-27454 training

LIPPERT, THOMAS M.

Large-screen-projection, avionic, and helmet-mounted displays; Proceedings of the Meeting, San Jose, CA, Feb. 26-28, 1991

I SPIE-1456 I p 181 A93-26881 Helmet-mounted displays III; Proceedings of the Meeting, Orlando, FL, Apr. 21, 22, 1992 p 227 A93-30051

I SPIE-1695]

LITOVITZ, T. A. Mechanisms of microwave induced damage in biologic materials

IAD-A2557991 p 42 N93-14648 Mechanisms of microwave induced damage in biologic materials

LAD-A2644151 o 358 N93-32035

LITTLEFIELD, M.

An experiment in vision based autonomous grasping within a reduced gravity environment

p 193 A93-29137

LITTMAN, DAVID C.

Behavioral validation of a hazardous thought pattern p 176 A93-27142

LIU. ANDREW

Depth cue interaction in telepresence and simulated p 232 A93-33446 telemanipulation Timing considerations of Helmet Mounted Display p 233 A93-33449 performance

LIU, BAOSHAN

Evaluation of finger motor reaction in flyer when handling throttle and stick p 29 A93-13539

LIU, CHENG-LIN

Effects of vitamin D and phosphorus level in diet on bone, skeletal muscle and kidney in suspended rats p 77 A93-19994

LIU. CHENGLIN

Pharmacological effects of mixture of Eleutherococcus (ELE) and Elscholtzia (ELS) p 11 A93-13710

LIU, CHENGXIAN

The current status and prospects in the study of cell p 38 A93-16001 physiology under microgravity LIU, ZHAORONG

Effects of oxygen on regulation of cerebral blood flow rabbits adapted to hypoxia p 3 A93-13545 LIU ZUNYAO

Effects of positive acceleration on the microcirculation of rabbit conjunctiva, mesentery, skin, and pia mater

p 4 A93-13709 LIVIO, HANNA-LEENA Biotechnical production and use of pyruvic acid with

special reference to coenzyme regeneration p 209 N93-23369

LIZZA, CARL From pilot's associate to satellite controller's p 32 N93-11922

LLINAS A. Identification of a critical period for motor development p 157 A93-28764

LLINAS R. R. Identification of a critical period for motor development

in neonatal rats

p 157 A93-28764 LLINAS, RODOLFO R. Biophysical and biochemical mechanisms in synaptic

transmitter release p 55 N93-15198 LAD-A2563401 Biophysical and biochemical mechanisms in synaptic transmitter release

[AD-A264829] LLOYD, CHARLES W.

Space medicine - Answering the challenge p 87 A93-17552 Health maintenance facility system effectiveness testing [NASA-TM-104737]

LO, MICHAEL

SHARC: Space Habitat, Assembly and Repair Center [NASA-CR-192031] p 140 N93-18153

LOBASCIO, CESARE

The effects of a reduced pressure scenario on the Columbus APM environmental control system [SAE PAPER 921247] p 298 A93-41418

p 336 N93-30613

p 372 N93-32328

LOCKETT, JOHN PERSONAL AUTHOR INDEX

Mandada	LORENZ, CHRISTINE H.	Idaverine, an M2- vs. M3-selective muscarinic
Module SAE PAPER 921281 p 302 A93-41449	A feasibility study of hand kinematics for EVA analysis using magnetic resonance imaging	antagonist, does not prevent motion sickness in cats p 327 A93-44878
CREWCUT - A tool for modeling the effects of high	[SAE PAPER 921253] p 298 A93-41423	Habituation to feline motion sickness p 328 A93-44900
workload on human performance p 178 A93-27180	EVA Glove Research Team [NASA-CR-193014] p 313 N93-27847	Neurochemistry and pharmacology of motion sickness
LOCKETT, JOHN F., III	A feasibility study of hand kinematics for EVA analysis	in nonhuman species p 399 A93-55934
CREWCUT - A new tool for predicting human performance in conceptual systems p 178 A93-27179	using magnetic resonance imaging p 313 N93-27848 LORENZ, JUERGEN	LUDEWIG, HANS A computer model to determine the primary contributors
LOEPPKY, J. A.	Evoked brain potentials as indicators of a central nervous	to relative radiation dose received by astronauts
Body fluid alterations during head-down bed rest in men at moderate altitude p 251 A93-35493	impairment in a simulated saturation dive to 560 m [DLR-FB-92-14] p 219 N93-24093	p 43 A93-13935 LUFT, F. C.
Effects of prolonged head-down bed rest on	[DLR-FB-92-14] p 219 N93-24093 LORENZI, GIOVANNA	Body fluid alterations during head-down bed rest in men
physiological responses to moderate hypoxia p 251 A93-35494	Cultivation of Hamster Kidney cells in a Dynamic Cell	at moderate altitude p 251 A93-35493 LUFT, U. C.
LOEWIK, M. R. H.	Culture System in space (Spacelab IML-1 mission) p 200 A93-32071	Body fluid alterations during head-down bed rest in men
An automated processing system for food frequency and	LORENZO, ANTONIO V.	at moderate altitude p 251 A93-35493
nutrition knowledge questionnaire p 367 N93-32241 LOFARO, RONALD J.	Increased release of brain serotonin reduces vulnerability to ventricular fibrillation in the cat	Effects of prolonged head-down bed rest on physiological responses to moderate hypoxia
Workshop on Aeronautical Decision Making (ADM).	p 151 A93-26500	p 251 A93-35494
Volume 1: Executive summary [AD-A257016] p 99 N93-16189	LORTIE, M. Comparison of spinal health indicators in predicting	LUFT, V. M. A modified method for investigating gastric secretion
LOFTIN, KARIN C.	spinal status in a 1-year longitudinal study	in aviation medical examination p 359 A93-45692
The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network	p 216 A93-32786 LOSHIN, DAVID S.	LUJAN, BARBARA F. Medical concerns for exploration-class missions
(BRAIN) p 258 N93-25595	Human low vision image warping - Channel matching	p 386 A93-52409
LOGINOV, V. A. The problem of oxygen regimen in extreme conditions	considerations p 231 A93-32444	LUKEFAHR, BRENDA D. The ECLSS advanced automation project evolution and
p 160 A93-27685	Design of a reading test for low vision image warping p 400 A93-53025	technology assessment p 312 N93-27723
Oxygen tension and water-soluble products of lipid	LOUIS, DAVID J.	LUMIA, RONALD
peroxidation in blood of volunteers in hypobaric hyperoxial p 169 A93-28751	A study of illness related lost time in transport aircraft crewmembers	A manipulator control testbed - Implementation and applications
Accumulation of calcium ions in the myocardial	[AD-A258193] p 132 N93-18298	[AAS PAPER 92-054] p 392 A93-50594
sarcoplasmic reticulum of restrained rats exposed to a pulsed electromagnetic field p 240 A93-35225	LOVESEY, E. J. Management of avionics data in the cockpit	LUNDGREN, CLAES E. G. Perfusion of the visual cortex during pressure breathing
LOGUE, M.	p 147 N93-19777	at different high-G stress profiles p 401 A93-55167
Effects of running the Bostom Marathon on plasma concentrations of large neutral amino acids	LOVETT, STAN Explosives search dogs p 159 N93-21933	LUPANDIN, YU. V. Electromyographic patterns of the thermoregulatory
p 160 A93-27048	LOVO, A.	activity of motor units during cooling of the organism
LOGVINOV, S. V. Microwaves and the visual analyzer	Portable equipment developed to estimate energy	p 360 A93-46968 LUSHCHIKOV, E. A.
p 250 A93-35247	expenditure by simultaneous recording of heart rate and body position p 368 N93-32243	The quality of an operator's work on a flight simulator
LOKTIN, G. I. Development of K.E. Tsiolkovsky's ideas on the	LOWN, BERNARD	under conditions of thermal discomfort p 45 A93-15172
interaction between space, nature, and man	Increased release of brain serotonin reduces vulnerability to ventricular fibrillation in the cat	LUSTIN, S. I.
p 90 A93-18408 LOMBARDI, FEDERICO	p 151 A93-26500	Immune and physiological mechanisms of hypoxic reactions p 384 A93-51116
Increased release of brain serotonin reduces	LOWRIE, JAMES W. Flight Telerobotic Servicer legacy p 190 A93-29106	Hypobaric hypoxia as a correction and rehabilitation
vulnerability to ventricular fibrillation in the cat	Flight Telerobotic Servicer legacy	method in aviation medicine p 402 A93-55332 LUTTGES, M. W.
p 151 A93-26500 LONG, I. D.	[AIAA PAPER 93-1157] p 231 A93-31032 LOZOVSKAYA, E. L.	Design and evaluation of a payload to support plant
Health services at the Kennedy Space Center	Changes in the intensity of free-radical reactions in the	growth onboard COMET 1
p 154 A93-28711. Emergency medical operations at Kennedy Space	organs of rats under hypokinetic stress, protected by the delta-sleep-inducing peptide and its tyrosine-containing	[SAE PAPER 921389] p 308 A93-41547 LUTTGES, MARVIN W.
Center in support of space shuttle p 166 A93-28712		LIAC - A closed ecosystem research facility
	analogue p 378 A93-51101	
LONG, S.	LU, Z. L.	p 347 A93-42129
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as	LU, Z. L. Neuromagnetic investigation of cortical regions underlying short-term memory	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO	LU, Z. L. Neuromagnetic investigation of cortical regions underlying short-term memory [AD-A261445] p 261 N93-26521	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P.	LU, Z. L. Neuromagnetic investigation of cortical regions underlying short-term memory [AD-A261445] LUBIN, JEFFREY Human visual performance model for crewstation	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P. Resource capture by single leaves	Neuromagnetic investigation of cortical regions underlying short-term memory AD-A261445 p 261 N93-26521 LUBIN, JEFFREY Human visual performance model for crewstation design p 182 A93-26887	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P. Resource capture by single leaves [DE92-015847] p 5 N93-10461 The effects of prolonged growth in elevated CO2	LU, Z. L Neuromagnetic investigation of cortical regions underlying short-term memory [AD-A261445] p 261 N93-26521 LUBIN, JEFFREY Human visual performance model for crewstation design p 182 A93-26887 Visualization and modeling of factors influencing visibility in computer-aided crewstation design	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595 LYCHAKOV, D. V. Interlabyrinth otolithic asymmetry under normal
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P. Resource capture by single leaves [DE92-015847] p 5 N93-10461 The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf	Neuromagnetic investigation of cortical regions underlying short-term memory [AD-A261445] p 261 N93-26521 LUBIN, JEFFREY Human visual performance model for crewstation p 182 A93-26887 Visualization and modeling of factors influencing visibility in computer-aided crewstation design [SAE PAPER 921135] p 292 A93-41323	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595 LYCHAKOV, D. V. Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P. Resource capture by single leaves [DE92-015847] p 5 N93-10461 The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751	LU, Z. L Neuromagnetic investigation of cortical regions underlying short-term memory [AD-A261445] p 261 N93-26521 LUBIN, JEFFREY Human visual performance model for crewstation design p 182 A93-26887 Visualization and modeling of factors influencing visibility in computer-aided crewstation design	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595 LYCHAKOV, D. V. Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change p 242 A93-35264 LYDICK, L. N.
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P. Resource capture by single leaves [DE92-015847] p 5 N93-10461 The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 LONG, SHENGZHAO	Neuromagnetic investigation of cortical regions underlying short-term memory [AD-A261445] p 261 N93-26521 LUBIN, JEFFREY Human visual performance model for crewstation design Visualization and modeling of factors influencing visibility in computer-aided crewstation design [SAE PAPER 921135] p 292 A93-41323 LUCAS, JOE NATHAN Molecular cytogenetics: A novel approach for measuring chromosome translocations in individuals years after	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595 LYCHAKOV, D. V. Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change p 242 A93-35264
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P. Resource capture by single leaves [DE92-015847] p 5 N93-10461 The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 LONG, SHENGZHAO Study of overall analysis method of the man-machine-environment systems p 61 A93-14413	LU, Z. L. Neuromagnetic investigation of cortical regions underlying short-term memory AD-A261445 p 261 N93-26521 LUBIN, JEFFREY Human visual performance model for crewstation design p 182 A93-26887 Visualization and modeling of factors influencing visibility in computer-aided crewstation design [SAE PAPER 921135] p 292 A93-41323 LUCAS, JOE NATHAN Molecular cytogenetics: A novel approach for measuring	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595 LYCHAKOV, D. V. Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change p 242 A93-35264 LYDICK, L. N. Head-steered sensor flight test results and implications p 318 N93-28859 LYMN, R. W.
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P. Resource capture by single leaves [DE92-015847] p 5 N93-10461 The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 LONG, SHENGZHAO Study of overall analysis method of the man-machine-environment systems p 61 A93-14413 LONG, WALT	Neuromagnetic investigation of cortical regions underlying short-term memory AD-A261445 p 261 N93-26521 LUBIN, JEFFREY p 261 N93-26521 Human visual performance model for crewstation design p 182 A93-26887 Visualization and modeling of factors influencing visibility in computer-aided crewstation design SAE PAPER 921135 p 292 A93-41323 LUCAS, JOE NATHAN p 292 A93-41323 LUCAS, JOE NATHAN Molecular cytogenetics: A novel approach for measuring chromosome translocations in individuals years after exposure to low levels of ionizing radiation JDE92-018066 p 5 N93-10974 LUCASSEN, M. P.	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595 LYCHAKOV, D. V. Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change p 242 A93-35264 LYDICK, L. N. Head-steered sensor flight test results and implications p 318 N93-28859 LYMN, R. W. Effects of spaceflight on the musculoskeletal system
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P. Resource capture by single leaves [DE92-015847] p 5 N93-10461 The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 LONG, SHENGZHAO Study of overall analysis method of the man-machine-environment systems p 61 A93-14413 LONG, WALT Hydrogen-rated system for in vitro studies at pressure: Operating procedures and emergency procedures	Neuromagnetic investigation of cortical regions underlying short-term memory AD-A261445 p 261 N93-26521 LUBIN, JEFFREY Human visual performance model for crewstation design p 182 A93-26887 Visualization and modeling of factors influencing visibility in computer-aided crewstation design SAE PAPER 921135 p 292 A93-41323 LUCAS, JOE NATHAN Molecular cytogenetics: A novel approach for measuring chromosome translocations in individuals years after exposure to low levels of ionizing radiation DE92-018066 p 5 N93-10974	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595 LYCHAKOV, D. V. Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change p 242 A93-35264 LYDICK, L. N. Head-steered sensor flight test results and implications p 318 N93-28859 LYMN, R. W.
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P. Resource capture by single leaves [DE92-015847] p 5 N93-10461 The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 LONG, SHENGZHAO Study of overall analysis method of the man-machine-environment systems p 61 A93-14413 LONG, WALT Hydrogen-rated system for in vitro studies at pressure: Operating procedures and emergency procedures [AD-A264179] p 336 N93-30882	Neuromagnetic investigation of cortical regions underlying short-term memory AD-A261445 p 261 N93-26521 LUBIN, JEFFREY p 261 N93-26521 Human visual performance model for crewstation design p 182 A93-26887 Visualization and modeling of factors influencing visibility in computer-aided crewstation design SAE PAPER 921135 p 292 A93-41323 LUCAS, JOE NATHAN p 292 A93-41323 LUCAS, JOE NATHAN Molecular cytogenetics: A novel approach for measuring chromosome translocations in individuals years after exposure to low levels of ionizing radiation DE92-018066 p 5 N93-10974 LUCASSEN, M. P. A spurious pop-out in visual search AD-A256548 p 57 N93-14267 LUCCIOLI, S.	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595 LYCHAKOV, D. V. Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change p 242 A93-35264 LYDICK, L. N. Head-steered sensor flight test results and implications p 318 N93-28859 LYMN, R. W. Effects of spaceflight on the musculoskeletal system-NIH and NASA future directions p 383 A93-49568 LYNCH, D. Operation Everest II - Spirometric and radiographic
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P. Resource capture by single leaves [DE92-015847] p 5 N93-10461 The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 LONG, SHENGZHAO Study of overall analysis method of the man-machine-environment systems p 61 A93-14413 LONG, WALT Hydrogen-rated system for in vitro studies at pressure: Operating procedures and emergency procedures [AD-A264179] p 336 N93-30882 LONGBOTHAM, HAROLD Analysis of visual loss from retinal lesions	Neuromagnetic investigation of cortical regions underlying short-term memory [AD-A261445] p 261 N93-26521 LUBIN, JEFFREY Human visual performance model for crewstation design p 182 A93-26887 Visualization and modeling of factors influencing visibility in computer-aided crewstation design [SAE PAPER 921135] p 292 A93-41323 LUCAS, JOE NATHAN Molecular cytogenetics: A novel approach for measuring chromosome translocations in individuals years after exposure to low levels of ionizing radiation [DE92-018066] p 5 N93-10974 LUCASSEN, M. P. A spurious pop-out in visual search [AD-A256548] p 57 N93-14267	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595 LYCHAKOV, D. V. Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change p 242 A93-35264 LYDICK, L. N. Head-steered sensor flight test results and implications p 318 N93-28859 LYMN, R. W. Effects of spaceflight on the musculoskeletal system-NIH and NASA future directions p 383 A93-49568 LYNCH, D.
The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P. Resource capture by single leaves [DE92-015847] p 5 N93-10461 The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 LONG, SHENGZHAO Study of overall analysis method of the man-machine-environment systems p 61 A93-14413 LONG, WALT Hydrogen-rated system for in vitro studies at pressure: Operating procedures and emergency procedures [AD-A264179] p 336 N93-30882 LONGBOTHAM, HAROLD Analysis of visual loss from retinal lesions [AD-A264692] p 336 N93-30494	Neuromagnetic investigation of cortical regions underlying short-term memory AD-A261445 p 261 N93-26521 LUBIN, JEFFREY p 261 N93-26521 Human visual performance model for crewstation design p 182 A93-26887 Visualization and modeling of factors influencing visibility in computer-aided crewstation design SAE PAPER 921135 p 292 A93-41323 LUCAS, JOE NATHAN p 292 A93-41323 LUCAS, JOE NATHAN Molecular cytogenetics: A novel approach for measuring chromosome translocations in individuals years after exposure to low levels of ionizing radiation JDE92-018066 p 5 N93-10974 LUCASSEN, M. P. A spurious pop-out in visual search JAD-A256548 p 57 N93-14267 LUCCIOLI, S. Studies of safety, infectivity, and immunogenicity of a new Temperature Sensitive (TS) 51-1 strain of S. typhi as a new live oral typhoid fever vaccine candidate	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595 LYCHAKOV, D. V. Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change p 242 A93-35264 LYDICK, L. N. Head-steered sensor flight test results and implications p 318 N93-28859 LYMN, R. W. Effects of spaceflight on the musculoskeletal system-NIH and NASA future directions p 383 A93-49568 LYNCH, D. Operation Everest II - Spirometric and radiographic changes in acclimatized humans at simulated high altitudes p 383 A93-49574 LYNCH, H. J.
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P. Resource capture by single leaves [DE92-015847] p 5 N93-10461 The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 LONG, SHENGZHAO Study of overall analysis method of the man-machine-environment systems p 61 A93-14413 LONG, WALT Hydrogen-rated system for in vitro studies at pressure: Operating procedures and emergency procedures [AD-A264179] p 336 N93-30882 LONGBOTHAM, HAROLD Analysis of visual loss from retinal lesions [AD-A264692] p 336 N93-30494 LONGRIDGE, THOMAS M. Helicopter simulation: An aircrew training and	Neuromagnetic investigation of cortical regions underlying short-term memory AD-A261445 p 261 N93-26521 LUBIN, JEFFREY p 261 N93-26521 LUBIN, JEFFREY p 261 N93-26521 LUBIN, JEFFREY p 261 N93-26887 Visualization and modeling of factors influencing visibility in computer-aided crewstation design [SAE PAPER 921135 p 292 A93-41323 LUCAS, JOE NATHAN p 292 A93-41323 LUCAS, JOE NATHAN Molecular cytogenetics: A novel approach for measuring chromosome translocations in individuals years after exposure to low levels of ionizing radiation [DE92-018066 p 5 N93-10974 LUCASSEN, M. P. A spurious pop-out in visual search AD-A256548 p 57 N93-14267 LUCCIOLI, S. Studies of safety, infectivity, and immunogenicity of a new Temperature Sensitive (TS) 51-1 strain of S. typhi	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595 LYCHAKOV, D. V. Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change p 242 A93-35264 LYDICK, L. N. Head-steered sensor flight test results and implications p 318 N93-28859 LYMN, R. W. Effects of spaceflight on the musculoskeletal system NIH and NASA future directions p 383 A93-49568 LYNCH, D. Operation Everest II - Spirometric and radiographic changes in acclimatized humans at simulated high altitudes p 383 A93-49574 LYNCH, H. J. Melatonin concentrations in the sudden infant death
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P. Resource capture by single leaves [DE92-015847] p 5 N93-10461 The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 LONG, SHENGZHAO Study of overall analysis method of the man-machine-environment systems p 61 A93-14413 LONG, WALT Hydrogen-rated system for in vitro studies at pressure: Operating procedures and emergency procedures [AD-A264179] p 336 N93-30882 LONGBOTHAM, HAROLD Analysis of visual loss from retinal lesions [AD-A264692] p 336 N93-30494 LONGRIDGE, THOMAS M. Helicopter simulation: An aircrew training and qualification perspective p 342 N93-30676	Neuromagnetic investigation of cortical regions underlying short-term memory AD-A261445	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595 LYCHAKOV, D. V. Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change p 242 A93-35264 LYDICK, L. N. Head-steered sensor flight test results and implications p 318 N93-28859 LYMN, R. W. Effects of spaceflight on the musculoskeletal system NIH and NASA future directions p 383 A93-49568 LYNCH, D. Operation Everest II - Spirometric and radiographic changes in acclimatized humans at simulated high altitudes p 383 A93-49574 LYNCH, H. J. Melatonin concentrations in the sudden infant death syndrome p 203 A93-33030 LYNCH, HARRY J.
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P. Resource capture by single leaves [DE92-015847] p 5 N93-10461 The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 LONG, SHENGZHAO Study of overall analysis method of the man-machine-environment systems p 61 A93-14413 LONG, WALT Hydrogen-rated system for in vitro studies at pressure: Operating procedures and emergency procedures [AD-A264179] p 336 N93-30882 LONGBOTHAM, HAROLD Analysis of visual loss from retinal lesions [AD-A264692] p 336 N93-30494 LONGRIDGE, THOMAS M. Helicopter simulation: An aircrew training and	Neuromagnetic investigation of cortical regions underlying short-term memory AD-A261445 p 261 N93-26521 LUBIN, JEFFREY	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595 LYCHAKOV, D. V. Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change p 242 A93-35264 LYDICK, L. N. Head-steered sensor flight test results and implications p 318 N93-28859 LYMN, R. W. Effects of spaceflight on the musculoskeletal system-NIH and NASA future directions p 383 A93-49568 LYNCH, D. Operation Everest II - Spirometric and radiographic changes in acclimatized humans at simulated high altitudes p 383 A93-49574 LYNCH, H. J. Melatonin concentrations in the sudden infant death syndrome p 203 A93-33030 LYNCH, HARRY J. Melatonin and its precursors in Y79 human
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P. Resource capture by single leaves [DE92-015847] p 5 N93-10461 The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 LONG, SHENGZHAO Study of overall analysis method of the man-machine-environment systems p 61 A93-14413 LONG, WALT Hydrogen-rated system for in vitro studies at pressure: Operating procedures and emergency procedures [AD-A264179] p 336 N93-30882 LONGBOTHAM, HAROLD Analysis of visual loss from retinal lesions [AD-A264692] p 336 N93-30494 LONGRIDGE, THOMAS M. Helicopter simulation: An aircrew training and qualification perspective p 342 N93-30676 LOOCHAN, FAREDOON K. The prevalence of artificial lens implants in the civil airman population	Neuromagnetic investigation of cortical regions underlying short-term memory AD-A261445 p 261 N93-26521 LUBIN, JEFFREY p 261 N93-26521 Human visual performance model for crewstation design p 182 A93-26887 Visualization and modeling of factors influencing visibility in computer-aided crewstation design SAE PAPER 921135 p 292 A93-41323 LUCAS, JOE NATHAN p 292 A93-41323 LUCAS, JOE NATHAN Molecular cytogenetics: A novel approach for measuring chromosome translocations in individuals years after exposure to low levels of ionizing radiation DE92-018066 p 5 N93-10974 LUCASSEN, M. P. A spurious pop-out in visual search AD-A26548 p 57 N93-14267 LUCCIOLI, S. Studies of safety, infectivity, and immunogenicity of a new Temperature Sensitive (TS) 51-1 strain of S. typhi as a new live oral typhoid fever vaccine candidate p 19 N93-11306 LUCEY, D. R. Early markers of HIV infection and subclinical disease progression p 17 N93-11296 LUCEY, DANIEL R. Estimates of Human Immunodeficiency Virus (HIV)	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595 LYCHAKOV, D. V. Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change p 242 A93-35264 LYDICK, L. N. Head-steered sensor flight test results and implications p 318 N93-28859 LYMN, R. W. Effects of spaceflight on the musculoskeletal system NIH and NASA future directions p 383 A93-49568 LYNCH, D. Operation Everest II - Spirometric and radiographic changes in acclimatized humans at simulated high altitudes p 383 A93-49574 LYNCH, H. J. Melatonin concentrations in the sudden infant death syndrome p 203 A93-33030 LYNCH, HARRY J.
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P. Resource capture by single leaves [DE92-015847] p 5 N93-10461 The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 LONG, SHENGZHAO Study of overall analysis method of the man-machine-environment systems p 61 A93-14413 LONG, WALT Hydrogen-rated system for in vitro studies at pressure: Operating procedures and emergency procedures [AD-A264179] p 336 N93-30882 LONGBOTHAM, HAROLD Analysis of visual loss from retinal lesions [AD-A264692] p 336 N93-30494 LONGRIDGE, THOMAS M. Helicopter simulation: An aircrew training and qualification perspective p 342 N93-30676 LOOCHAN, FAREDOON K. The prevalence of artificial lens implants in the civil	Neuromagnetic investigation of cortical regions underlying short-term memory AD-A261445 p 261 N93-26521 LUBIN, JEFFREY	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595 LYCHAKOV, D. V. Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change p 242 A93-35264 LYDICK, L. N. Head-steered sensor flight test results and implications p 318 N93-28859 LYMN, R. W. Effects of spaceflight on the musculoskeletal system-NIH and NASA future directions p 383 A93-49568 LYNCH, D. Operation Everest II - Spirometric and radiographic changes in acclimatized humans at simulated high altitudes p 383 A93-49574 LYNCH, H. J. Melatonin concentrations in the sudden infant death syndrome p 203 A93-33030 LYNCH, HARRY J. Melatonin and its precursors in Y79 human retinoblastoma cells - Effect of sodium butyrate p 214 A93-32120 Melatonin in human preovulatory follicular fluid
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P. Resource capture by single leaves [DE92-015847] p 5 N93-10461 The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 LONG, SHENGZHAO Study of overall analysis method of the man-machine-environment systems p 61 A93-14413 LONG, WALT Hydrogen-rated system for in vitro studies at pressure: Operating procedures and emergency procedures [AD-A264179] p 336 N93-30882 LONGBOTHAM, HAROLD Analysis of visual loss from retinal lesions [AD-A264692] p 336 N93-30494 LONGRIDGE, THOMAS M. Helicopter simulation: An aircrew training and qualification perspective p 342 N93-30676 LOOCHAN, FAREDOON K. The prevalence of artificial tens implants in the civil airman population [DOT/FAA/AM-92/14] p 253 N93-25214 LOOPER, LAURIE	Neuromagnetic investigation of cortical regions underlying short-term memory AD-A261445 p 261 N93-26521 LUBIN, JEFFREY P 261 N93-26521 Human visual performance model for crewstation design p 182 A93-26887 Visualization and modeling of factors influencing visibility in computer-aided crewstation design SAE PAPER 921135 p 292 A93-41323 LUCAS, JOE NATHAN P 292 A93-41323 LUCAS, JOE NATHAN Molecular cytogenetics: A novel approach for measuring chromosome translocations in individuals years after exposure to low levels of ionizing radiation DE92-018066 p 5 N93-10974 LUCASSEN, M. P. A spurious pop-out in visual search AD-A26548 p 57 N93-14267 LUCCIOLI, S. Studies of safety, infectivity, and immunogenicity of a new Temperature Sensitive (TS) 51-1 strain of S. typhi as a new live oral typhoid fever vaccine candidate p 19 N93-11306 LUCEY, D. R. Early markers of HIV infection and subclinical disease progression p 17 N93-11296 LUCEY, DANIEL R. Estimates of Human Immunodeficiency Virus (HIV) incidence and trends in the US Air Force p 16 N93-11292 LUCK, STEPHEN	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595 LYCHAKOV, D. V. Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change p 242 A93-35264 LYDICK, L. N. Head-steered sensor flight test results and implications p 318 N93-28859 LYMN, R. W. Effects of spaceflight on the musculoskeletal system-NIH and NASA future directions p 383 A93-49568 LYNCH, D. Operation Everest II - Spirometric and radiographic changes in acclimatized humans at simulated high altitudes p 383 A93-49574 LYNCH, H. J. Melatonin concentrations in the sudden infant death syndrome p 203 A93-33030 LYNCH, HARRY J. Melatonin and its precursors in Y79 human retinoblastoma cells - Effect of sodium butyrate p 214 A93-32120 Melatonin in human preovulatory follicular fluid p 215 A93-32474
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P. Resource capture by single leaves [DE92-015847] p 5 N93-10461 The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 LONG, SHENGZHAO Study of overall analysis method of the man-machine-environment systems p 61 A93-14413 LONG, WALT Hydrogen-rated system for in vitro studies at pressure: Operating procedures and emergency procedures [AD-A264179] p 336 N93-30882 LONGBOTHAM, HAROLD Analysis of visual loss from retinal lesions [AD-A264692] p 336 N93-30494 LONGRIDGE, THOMAS M. Helicopter simulation: An aircrew training and qualification perspective p 342 N93-30676 LOOCHAN, FAREDOON K. The prevalence of artificial lens implants in the civil airman population [DOT/FAA/AM-92/14] p 253 N93-25214 LOOPER, LAURIE	Neuromagnetic investigation of cortical regions underlying short-term memory AD-A261445 p 261 N93-26521 LUBIN, JEFFREY	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595 LYCHAKOV, D. V. Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change p 242 A93-35264 LYDICK, L. N. Head-steered sensor flight test results and implications p 318 N93-28859 LYMN, R. W. Effects of spaceflight on the musculoskeletal system NIH and NASA future directions p 383 A93-49568 LYNCH, D. Operation Everest II - Spirometric and radiographic changes in acclimatized humans at simulated high altitudes p 383 A93-49574 LYNCH, H. J. Melatonin concentrations in the sudden infant death syndrome p 203 A93-33030 LYNCH, HARRY J. Melatonin and its precursors in Y79 human retinoblastoma cells - Effect of sodium butyrate p 214 A93-32120 Melatonin in human preovulatory follicutar fluid p 215 A93-32474 LYONS, TERENCE J. Epidemiology of United States Air Force spatial
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P. Resource capture by single leaves [DE92-015847] p 5 N93-10461 The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 LONG, SHENGZHAO Study of overall analysis method of the man-machine-environment systems p 61 A93-14413 LONG, WALT Hydrogen-rated system for in vitro studies at pressure: Operating procedures and emergency procedures [AD-A264179] p 336 N93-30882 LONGBOTHAM, HAROLD Analysis of visual loss from retinal lesions [AD-A264692] p 336 N93-30494 LONGRIDGE, THOMAS M. Helicopter simulation: An aircrew training and qualification perspective p 342 N93-30676 LOOCHAN, FAREDOON K. The prevalence of artificial tens implants in the civil airman population [DOT/FAA/AM-92/14] p 253 N93-25214 LOOPER, LAURIE Multicultural factors in the space environment - Results of an international shuttle crew debrief p 222 A93-30277 LOPEZ G-COVIELLA, IGNACIO	Neuromagnetic investigation of cortical regions underlying short-term memory [AD-A261445]	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595 LYCHAKOV, D. V. Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change p 242 A93-35264 LYDICK, L. N. Head-steered sensor flight test results and implications p 318 N93-28859 LYMN, R. W. Effects of spaceflight on the musculoskeletal system NIH and NASA future directions p 383 A93-49568 LYNCH, D. Operation Everest II - Spirometric and radiographic changes in acclimatized humans at simulated high altitudes p 383 A93-49574 LYNCH, H. J. Melatonin concentrations in the sudden infant death syndrome p 203 A93-33030 LYNCH, HARRY J. Melatonin and its precursors in Y79 human retinoblastoma cells - Effect of sodium butyrate p 214 A93-32120 Melatonin in human preovulatory follicular fluid p 215 A93-32474 LYONS, TERENCE J. Epidemiology of United States Air Force spatial disorientation accidents: 1990-1991 p 133 N93-19679
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P. Resource capture by single leaves [DE92-015847] p 5 N93-10461 The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 LONG, SHENGZHAO Study of overall analysis method of the man-machine-environment systems p 61 A93-14413 LONG, WALT Hydrogen-rated system for in vitro studies at pressure: Operating procedures and emergency procedures [AD-A264179] p 336 N93-30882 LONGBOTHAM, HAROLD Analysis of visual loss from retinal lesions [AD-A264692] p 336 N93-30494 LONGRIDGE, THOMAS M. Helicopter simulation: An aircrew training and qualification perspective p 342 N93-30676 LOOCHAN, FAREDOON K. The prevalence of artificial lens implants in the civil airman population [DOT/FAA/AM-92/14] p 253 N93-25214 LOOPER, LAURIE Multicultural factors in the space environment - Results of an international shuttle crew debrief p 222 A93-30277	Neuromagnetic investigation of cortical regions underlying short-term memory AD-A261445	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595 LYCHAKOV, D. V. Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change p 242 A93-35264 LYDICK, L. N. Head-steered sensor flight test results and implications p 318 N93-28859 LYMN, R. W. Effects of spaceflight on the musculoskeletal system NIH and NASA future directions p 383 A93-49568 LYNCH, D. Operation Everest II - Spirometric and radiographic changes in acclimatized humans at simulated high altitudes p 383 A93-49574 LYNCH, H. J. Melatonin concentrations in the sudden infant death syndrome p 203 A93-33030 LYNCH, HARRY J. Melatonin and its precursors in Y79 human retinoblastoma cells - Effect of sodium butyrate p 214 A93-32120 Melatonin in human preovulatory follicutar fluid p 215 A93-32474 LYONS, TERENCE J. Epidemiology of United States Air Force spatial
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P. Resource capture by single leaves [DE92-015847] p 5 N93-10461 The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 LONG, SHENGZHAO Study of overall analysis method of the man-machine-environment systems p 61 A93-14413 LONG, WALT Hydrogen-rated system for in vitro studies at pressure: Operating procedures and emergency procedures [AD-A264179] p 336 N93-30882 LONGBOTHAM, HAROLD Analysis of visual loss from retinal lesions [AD-A264692] p 336 N93-30494 LONGRIDGE, THOMAS M. Helicopter simulation: An aircrew training and qualification perspective p 342 N93-30676 LOOCHAN, FAREDOON K. The prevalence of artificial tens implants in the civil airman population [DOT/FAA/AM-92/14] p 253 N93-25214 LOOPER, LAURIE Multicultural factors in the space environment - Results of an international shuttle crew debrief p 222 A93-30277 LOPEZ GCOVIELLA, IGNACIO Melatonin and its precursors in Y79 human retinoblastoma cells - Effect of sodium butyrate p 214 A93-32120	Neuromagnetic investigation of cortical regions underlying short-term memory AD-A261445 p 261 N93-26521 LUBIN, JEFFREY P 261 N93-26521 Human visual performance model for crewstation design p 182 A93-26887 Visualization and modeling of factors influencing visibility in computer-aided crewstation design SAE PAPER 921135 p 292 A93-41323 LUCAS, JOE NATHAN P 292 A93-41323 LUCAS, JOE NATHAN Molecular cytogenetics: A novel approach for measuring chromosome translocations in individuals years after exposure to low levels of ionizing radiation DE92-018066 p 5 N93-10974 LUCASSEN, M. P. A spurious pop-out in visual search AD-A26548 p 57 N93-14267 LUCCIOLI, S. Studies of safety, infectivity, and immunogenicity of a new Temperature Sensitive (TS) 51-1 strain of S. typhi as a new live oral typhoid fever vaccine candidate p 19 N93-11306 LUCEY, D. R. Early markers of HIV infection and subclinical disease progression p 17 N93-11296 LUCEY, DANIEL R. Estimates of Human Immunodeficiency Virus (HIV) incidence and trends in the US Air Force p 16 N93-11292 LUCK, STEPHEN Hermes ECLSS Main requirements and technical solutions SAE PAPER 921400 p 309 A93-41555 LUCOT, JAMES B. 8-OH-DPAT does not interfere with habituation to motion-induced emesis in cats p 271 A93-38451	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595 LYCHAKOV, D. V. Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change p 242 A93-35264 LYDICK, L. N. Head-steered sensor flight test results and implications p 318 N93-28859 LYMN, R. W. Effects of spaceflight on the musculoskeletal system NIH and NASA future directions p 383 A93-49568 LYNCH, D. Operation Everest II - Spirometric and radiographic changes in acclimatized humans at simulated high altitudes p 383 A93-49574 LYNCH, H. J. Melatonin concentrations in the sudden infant death syndrome p 203 A93-33030 LYNCH, HARRY J. Melatonin and its precursors in Y79 human retinoblastoma cells - Effect of sodium butyrate p 214 A93-32120 Melatonin in human preovulatory follicular fluid p 215 A93-32474 LYONS, TERENCE J. Epidemiology of United States Air Force spatial disorientation accidents: 1990-1991 p 133 N93-19679 LYONS, TIMOTHY Field trial of caffeine on physical performance at altitude: An attempt to overcome the challenge
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P. Resource capture by single leaves [DE92-015847] p 5 N93-10461 The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 LONG, SHENGZHAO Study of overall analysis method of the man-machine-environment systems p 61 A93-14413 LONG, WALT Hydrogen-rated system for in vitro studies at pressure: Operating procedures and emergency procedures [AD-A264179] p 336 N93-30882 LONGBOTHAM, HAROLD Analysis of visual loss from retinal lesions [AD-A264692] p 336 N93-30494 LONGRIDGE, THOMAS M. Helicopter simulation: An aircrew training and qualification perspective p 342 N93-30676 LOOCHAN, FAREDOON K. The prevalence of artificial lens implants in the civil airman population [DOT/FAA/AM-92/14] p 253 N93-25214 LOOPER, LAURIE Multicultural factors in the space environment - Results of an international shuttle crew debrief p 222 A93-30277 LOPEZ GCOVIELLA, IGNACIO Melatonin and its precursors in Y79 human retinoblastoma cells - Effect of sodium butyrate p 214 A93-32120 LOPEZ G-COVIELLA, I.	LU, Z. L. Neuromagnetic investigation of cortical regions underlying short-term memory AD-A261445	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595 LYCHAKOV, D. V. Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change p 242 A93-35264 LYDICK, L. N. Head-steered sensor flight test results and implications p 318 N93-28859 LYMN, R. W. Effects of spaceflight on the musculoskeletal system NIH and NASA future directions p 383 A93-49568 LYNCH, D. Operation Everest II - Spirometric and radiographic changes in acclimatized humans at simulated high altitudes p 383 A93-49574 LYNCH, H. J. Melatonin concentrations in the sudden infant death syndrome p 203 A93-33030 LYNCH, HARRY J. Melatonin and its precursors in Y79 human retinoblastoma cells - Effect of sodium butyrate p 214 A93-32120 Melatonin in human preovulatory follicular fluid p 215 A93-32474 LYONS, TERENCE J. Epidemiology of United States Air Force spatial disorientation accidents: 1990-1991 p 133 N93-19679 LYONS, TIMOTHY Field trial of caffeine on physical performance at altitude: An attempt to overcome the challenge [AD-A264260] p 337 N93-30894
LONG, S. The potential effects of concurrent increases in temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO [DE92-019411] p 5 N93-11630 LONG, S. P. Resource capture by single leaves [DE92-015847] p 5 N93-10461 The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 LONG, SHENGZHAO Study of overall analysis method of the man-machine-environment systems p 61 A93-14413 LONG, WALT Hydrogen-rated system for in vitro studies at pressure: Operating procedures and emergency procedures [AD-A264179] p 336 N93-30882 LONGBOTHAM, HAROLD Analysis of visual loss from retinal lesions [AD-A264692] p 336 N93-30494 LONGRIDGE, THOMAS M. Helicopter simulation: An aircrew training and qualification perspective p 342 N93-30676 LOOCHAN, FAREDOON K. The prevalence of artificial tens implants in the civil airman population [DOT/FAA/AM-92/14] p 253 N93-25214 LOOPER, LAURIE Multicultural factors in the space environment - Results of an international shuttle crew debrief p 222 A93-30277 LOPEZ GCOVIELLA, IGNACIO Melatonin and its precursors in Y79 human retinoblastoma cells - Effect of sodium butyrate p 214 A93-32120	Neuromagnetic investigation of cortical regions underlying short-term memory AD-A261445 p 261 N93-26521 LUBIN, JEFFREY P 261 N93-26521 Human visual performance model for crewstation design p 182 A93-26887 Visualization and modeling of factors influencing visibility in computer-aided crewstation design SAE PAPER 921135 p 292 A93-41323 LUCAS, JOE NATHAN P 292 A93-41323 LUCAS, JOE NATHAN Molecular cytogenetics: A novel approach for measuring chromosome translocations in individuals years after exposure to low levels of ionizing radiation DE92-018066 p 5 N93-10974 LUCASSEN, M. P. A spurious pop-out in visual search AD-A26548 p 57 N93-14267 LUCCIOLI, S. Studies of safety, infectivity, and immunogenicity of a new Temperature Sensitive (TS) 51-1 strain of S. typhi as a new live oral typhoid fever vaccine candidate p 19 N93-11306 LUCEY, D. R. Early markers of HIV infection and subclinical disease progression p 17 N93-11296 LUCEY, DANIEL R. Estimates of Human Immunodeficiency Virus (HIV) incidence and trends in the US Air Force p 16 N93-11292 LUCK, STEPHEN Hermes ECLSS Main requirements and technical solutions SAE PAPER 921400 p 309 A93-41555 LUCOT, JAMES B. 8-OH-DPAT does not interfere with habituation to motion-induced emesis in cats p 271 A93-38451	LUZI, GIUSEPPE Silent HIV infection p 16 N93-11293 LY, BEBE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595 LYCHAKOV, D. V. Interlabyrinth otolithic asymmetry under normal conditions and after the effect of a gravity change p 242 A93-35264 LYDICK, L. N. Head-steered sensor flight test results and implications p 318 N93-28859 LYMN, R. W. Effects of spaceflight on the musculoskeletal system NIH and NASA future directions p 383 A93-49568 LYNCH, D. Operation Everest II - Spirometric and radiographic changes in acclimatized humans at simulated high altitudes p 383 A93-49574 LYNCH, H. J. Melatonin concentrations in the sudden infant death syndrome p 203 A93-33030 LYNCH, HARRY J. Melatonin and its precursors in Y79 human retinoblastoma cells - Effect of sodium butyrate p 214 A93-32120 Melatonin in human preovulatory follicular fluid p 215 A93-32474 LYONS, TERENCE J. Epidemiology of United States Air Force spatial disorientation accidents: 1990-1991 p 133 N93-19679 LYONS, TIMOTHY Field trial of caffeine on physical performance at altitude: An attempt to overcome the challenge

М

MAASS, H.

Effects of simulated microgravity (HDT) on blood D 44 A93-14972 fluidity Response of adrenergic receptors to 10 days head-down

tilt bedrest p 162 A93-28679 Effect of head-down tilt bedrest (10 days) on lymphocyte

reactivity D 163 A93-28684 Effects of head-down tilt and saline loading on body

weight, fluid, and electrolyte homeostasis in man p 163 A93-28685

The effects of a 10-day period of head-down tilt on the cardiovascular responses to intravenous saline loading p 163 A93-28686

Effect of head-down bedrest on blood/plasma density after intravenous fluid load p 163 A93-28687

Diuresis and natriuresis following isotonic saline infusion in healthy young volunteers before, during, and after HDT p 163 A93-28688

MACDONALD, S.

Salivary total protein and experimental Coriolis p 383 A93-49573 sickness

MACDONALD, SCOTT

New pharmacologic approaches to the prevention of space/motion sickn p 85 A93-17538

MACDONALD, VICTOR W Systemic and pulmonary hypertension after resuscitation with cell-free hemoglobin

LAD-A2581851 p 120 N93-17900

MACDOUGALL, J. D.

The effects of variations in the anti-G straining maneuver on blood pressure at + Gz acceleration

p 118 A93-25204

MACELROY, ROBERT D.

Closed Ecological Life Support Systems (CELSS) Test p 233 N93-22628

MACHEMER, HANS

Short-term microgravity to isolate graviperception in p 111 A93-21901

Graviperception in unicellular organisms - A comparative

of dual-arm manipulation system

behavioural study under short-term microgravity p 151 Á93-26548 MACHIDA, KAZUO Research of a free-flying telerobot. IV - Development p 411 A93-56254

Research of a free-flying telerobot, V - Handling a target p 411 A93-56255 with multi-arms Skill compensation and dynamic coupling p 411 A93-56260 macro/smart effector system

MACHO, L. Investigation of fluid-electrolyte metabolism and its

hormonal regulation during the second joint Soviet-French p 247 A93-35207 space mission

Clinical and diagnostic requirements - Biochemical exploration of amino acid metabolism, tRNA turnover and lymphocyte activation p 49 A93-17442

MACK, GARY W.

Effects of dynamic exercise on cardiovascular regulation during lower body negative pressure p 281 A93-41168

MACKENZIE, COLIN F.

Development and enhancement of a model of performance and decision making under stress in a real life setting

| AD-A255699 | p 99 N93-16111 Development and enhancement of a mode of performance and decision making under stress in a real

life setting p 123 N93-18363 MACKO, STEPHEN A.

Kinetics of peptide hydrolysis and amino acid decomposition at high temperature p 411 A93-53289

MACLEAN, S. G. Machine vision in space p 395 A93-52641

MACLIN, E.

Functional MRI studies of human vision on a clinical

p 49 N93-12566 IDE92-0174481 MADER, T. H.

Intraocular pressure and retinal vascular changes during p 278 A93-39710 transient exposure to microgravity MADER, THOMAS H.

Intraocular pressure in microgravity

p 85 A93-17539 Cerebral blood velocity and other cardiovascular responses to 2 days of head-down tilt

p 280 A93-41122 MADSEN, BROOKS C.

Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399 MAEDA, TAKASHI

Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 375 A93-49179 MAEK, SH.

The Inkubator-2 complex for studying the embryonic and postembryonic development of birds in conditions of weightlessness p 241 A93-35242

Catalytic accretion of thermal heterocomplex molecules from amino acids in aqueous milieu p 354 A93-43793

Thermoregulatory responses of rhesus monkeys during spaceflight p 154 A93-28706

MAGEE MICHAEL

A vision system planner for increasing the autonomy of the Extravehicular Activity Helper/Retriever

[NASA-CR-193301] MAGNUSSON, MANS

Reduced voluntary non-visual suppression of the vestibulo-ocular reflex gain during nitrous oxide narcosis p 7 A93-10329

MAH, ROBERT W.

Automation and robotics human performance | NASA-CR-193049 | p 267 N93-26153

MAHER, E. P.

Development of Arabidopsis thaliana grown under microgravity conditions p 211 N93-24404

MAHER, T. J.

Effects of running the Bostom Marathon on plasma concentrations of large neutral amino acids p 160 A93-27048

Alanine increases blood pressure during hypotension p 203 A93-33027

MAHON, D. R.

Viral hepatitis in the US Air Force, 1980 - 1989 p 15 N93-11287

Monitoring of cardiovascular parameters during the AustroMir space flight p 220 N93-24367

MAILLET, ALAIN Effects of 28-day isolation (ESA-ISEMSI'90) on blood pressure and blood volume regulating hormones

p 251 A93-35495

p 278 A93-39716

p 365 N93-31844

MAIN JOHN A

A feasibility study of hand kinematics for EVA analysis using magnetic resonance imaging

ISAE PAPER 9212531 p 298 A93-41423

Power assist EVA glove development

| SAE PAPER 921255| p 299 A93-41425 EVA Glove Research Team

[NASA-CR-193014] p 313 N93-27847

A feasibility study of hand kinematics for EVA analysis using magnetic resonance imaging p 313 N93-27848 A preliminary structural analysis of space-based inflatable tubular frame structures p 313 N93-27849 Power assist EVA glove development

p 314 N93-27850 MAIRBAEURL, HEIMO

Interactions between Hb, Mg, DPG, ATP, and CI determine the change in Hb-O2 affinity at high altitude

MAISONBLANCHE, P.

Microgravity and orthostatic intolerance - Carotid hemodynamics and peripheral responses

MAKHANOV, M. A.

A method of multivariate analysis of data in the study of the effects of space flight factors on the rat brain neuron structure p 155 A93-28727

MAKHNACH, A. V.

Analysis of individual differences between psychological

reactions of humans under combined hypoxic stress p 388 A93-51115

MAKI, JAMES S.

Biodeterioration of materials in water reclamation systems

|SAE PAPER 9213111 p 303 A93-41473 MAKINODAN, TAKASHI

Cellular immunosenescence - An overview

p 80 A93-20663

MAKLETSOVA, M. G.

Changes in the intensity of free-radical reactions in the organs of rats under hypokinetic stress, protected by the delta-sleep-inducing peptide and its tyrosine-containing analoque p 378 A93-51101

MALACINSKI, G. M.

Early amphibian (anuran) morphogenesis is sensitive to ovel gravitational fields p 156 A93-28745 novel gravitational fields Altering the position of the first horizontal cleavage furrow of the amphibian (Xenopus) egg reduces embryonic

MALAVASIC, M. J.

survival

Studies of safety, infectivity, and immunogenicity of a new Temperature Sensitive (TS) 51-1 strain of S. typhi as a new live oral typhoid fever vaccine candidate

p 19 N93-11306

p 272 A93-39717

MALCONIAN M K

Operation Everest II - Spirometric and radiographic changes in acclimatized humans at simulated high altitudes n 383 A93-49574

MALCONIAN, MARK K.

Operation Everest II - Gas tensions in expired air and p 117 A93-24043 arterial blood at extreme altitude

MALHOTRA, RAVI M.

Body fluid compartments, renal blood flow, and hormones at 6,000 m in normal subjects

p 281 A93-41125

Approaches to solving the problem of decompression safety of cosmonauts on their flights to Mars

p 90 A93-18410

MALKIN, V. B.

K.E. Tsiolkovsky and biomedical problems connected with space exploration; Lectures Devoted to K.E. Tsiolkovsky's Ideas, 25th, Kaluga, Russia, Sept. 11-14, 1990, Transactions p 90 A93-18406

MALMSTROM, FREDERICK V.

Comparing the Cattell 16PF profiles of male and female p 178 A93-27177 commercial airline pilots

MALOWANY, A. S.

Teleprogramming a cooperative space robotic workcell for Space Station p 190 A93-29109

MAN'KOVS'KA, YI, M.

Mechanisms of the antihypoxic effect of taurine p 325 A93-43073

MANAHAN, MEERA K.

Adaptive strategies of remote systems operators exposed to perturbed camera-viewing conditions p 187 A93-27155

MANCINELLI, R. L.

The possibility of life on Mars during a water-rich past p 196 A93-27887

MANDERS, JULIAN H.

Flow cytometric analysis of lymphocyte surface markers following a 1-Gy dose of gamma radiation

p 281 A93-41170

The development of an automated cell culture system for use in space life science research

p 158 N93-21085

MANELFE, C.

Magnetic Resonance Imaging evaluation of lower limb muscles during bed rest - A microgravity simulation model p 212 A93-30280

The character of spontaneous oculomotor activity in weightlessness and during readaptation

p 248 A93-35219

MANGOLD, SUSAN J.

Human factors design principles for instrument approach procedure charts. Volume 1: Readability p 104 N93-15968

Poststrike air traffic control trainees - Biodemographic

MANKAMYER, MELANIE

p 365 N93-31456 Atmospheric control systems MANNING, CAROL A.

predictors of success in selection and screening p 56 A93-15664

MANNING, CHERYL A.

Suited for spacewalking: A teacher's guide with activities

(NASA-EP-279)

p 65 N93-13692 MANNING, JAMÉS M. Carboxyalkylated hemoglobin as a potential blood substitute

[AD-A252329] MÀNO, TADAAKI

Effect of water immersion on muscle sympathetic nerve response during static muscle contraction

p 402 A93-55328

MANO, TAKAICHI

Arterial oxygen saturation during +Gz acceleration by short-radius centrifuge p 379 A93-49178 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 375 A93-49179 MANOJLÓVIC, J.

Back ache in helicopter pilots MANSON, THOMAS J. p 382 A93-49566

p 192 A93-29116 The Servicing Aid Tool MANUKHIN, B. Ň.

activity and the catecholamine synthesis p 39 A93-16750

p 22 N93-11561

MAPOU, R. L.

military Relating cognitive function to performance in early HIV infection p 17 N93-11298 MAPOU, ROBERT L.

Effect of high temperature on the beta-adrenoreceptor

Measuring performance decrements in aviation personnel infected with the human immunodeficiency p 130 A93-25209 virus

MARC	ONE	ES-	NORTH, REGINA

Multicultural factors in the space environment - Results of an international shuttle crew debrief

p 222 A93-30277 MARCUS, B. A.

Prevention of cumulative trauma disorders

IPB93-1883321 p 338 N93-31138

MARCUS, LELAND

SHARC: Space Habitat, Assembly and Repair Center NASA-CR-192031 p 140 N93-18153

MARGALIT, RUTH

Pseudomonas screening assay [NASA-CASE-NPQ-17653-1-CU] p 245 N93-25994 MARILL, THOMAS

Why do we see three-dimensional objects?

[AD-A259892] p 224 N93-23986 MARINESCU, LUCIAN

Fractures of the vertebral column after ejection p 46 A93-15575

MARINI, J.-F.

Effects of acute exercise on attenuated vagal baroreflex function during bed rest p 48 A93-16160

Ab initio pilot training process more efficient than traditional methods p 387 A93-49276

Evaluation and optimization of a flexible filtration system

for respiratory protection system 21

[AD-A262467]

p 284 N93-28758 MARKIN, A. A.

Lipid peroxidation and the antioxidant defense system in rats after a 13-day flight on the Cosmos-1887 biosatellite p 239 A93-35210 Metabolism in cosmonauts - Results of biochemical

blood analyses for crew members of seven primary missions on the Mir orbital station p 250 A93-35254 MARKIN, A. S.

A free-fall flip-over response in rats after the flight onboard the Cosmos-936 biosatellite

p 240 A93-35215 Turning-over reaction during free fall in labyrinthectomized rats after a flight on the Cosmos 936 biosatellite p 241 A93-35246

MARKOVITS, ANDREW S. Photo-Refractive Keratectomy (PRK) - Threat or

millennium for military pilots? p 401 A93-55169 MARMARO, G. M.

Kennedy Space Center environmental health program p 166 A93-28713

MARMOT, M. G. Hypertension and the probability of an incapacitating

event over a defined period - Impact of treatment

p 215 A93-32777 MARR. M. J.

A computer-based visual analog scale
[AD-A258152]
p

p 122 N93-18280 MÀRRAS, WILLIAM S.

An improved simulation based biomechanical model to estimate static muscle loadings p 160 A93-27172

MARRIOTT, BERNADETTE M.

Body composition and physical performance [AD-A255627] p 69

p 69 N93-14161 MARSEE, R. L.

Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment)

TAD-A2555251 n 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime

search and rescue IAD-A2577041

p 107 N93-17697 MARSH, J. S.

Toward the ideal military aviation sunglass [AD-A258200]

p 140 N93-18200 MARSH, R.

Results of a structured psychiatric interview to evaluate NASA astronaut candidates p 223 A93-32780

MARSH, ROBERT W. The application of filtration technology within the Water

Processor on board Space Station Freedom p 300 A93-41440 [SAE PAPER 921270] Space Station Condensing Heat Exchanger biofilm

formation and control evaluation ISAE PAPER 9213831 p 308 A93-41541

MARSHAK, WILLIAM P.

Temporal Frequency Spectrum for describing and p 232 A93-33250 modeling motion perception
MARTEL, ADRIAN

Ergonomic development of digital map displays p 320 N93-28866

MARTENS, CHRISTOPHER S.

Methane transport mechanisms and isotopic fractionation in emergent macrophytes of an Alaskan p 38 A93-16544 tundra lake

MARTIN, ANTONIO MENDEZ

Trial of emergency ration of the Spanish Air Force p 368 N93-32247 MARTIN, C.

Otolithic illusions on takeoff and visual information: Reflections in connection with an air accident case p 134 N93-19681

MARTIN, CHARLES E.

An overview of the dynamic predictive architecture for robotic assistants p 191 A93-29112 Air Handling and Atmosphere Conditioning systems for manned spacecraft - A design and performance data

[SAE PAPER 921350] p 306 A93-41509 MARTIN, DAVID

The Servicing Aid Tool p 192 A93-29116 MARTIN, FRED H.

Candidate technologies for the Integrated Health Management Program

[NASA-CR-192520] p 217 N93-22655

MARTIN, PAUL

Interpretation as abduction [AD-A259608] p 225 N93-24227

MARTIN, WAYNE L. Human stereopsis p 223 A93-30456

p 145 N93-19764 Developing virtual cockpits MARTYNOVA, M. A.

Ozone - A new aspect of its effect on microorganisms p 398 A93-54971

MARU, RURIKO

Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 375 A93-49179

MASADI, ROGER Evaluation of two microclimate cooling air vests on a

heated mannequin p 194 N93-21269 [AD-A259410]

MASHINSKIJ, A. L.

The first 'space' vegetables have been grown in the 'SVET' greenhouse using controlled environmental conditions p 394 A93-52410

MASLENNIKOV, V. G.

Altitude stress and cosmonaut training

p 262 A93-35235

MASLEY, AMY S.

A study of the effects of lens focal length on remote driver performance

p 321 N93-28941 [AD-A263191]

MASLOVA, E. P. Significance of a comparison of results of caloric and vestibulometric rotation tests p 248 A93-35226

MASTRO, A. M.

Variable lymphocyte responses in rats after space p 154 A93-28704

MAŠTRO, ANDREA M.

Prolactin-induced mitogenesis of lymphocytes from p 329 A93-44934 ovariectomized rats

Reduction of postprandial lipemia after acute exposure to high altitude hypoxia p 382 A93-49567 MATHIS, ROBERT E.

Estimates of Human Immunodeficiency Virus (HIV) incidence and trends in the US Air Force p 16 N93-11292

MATIN, LEONARD

Visual perception of elevation

[AD-A261394] p 259 N93-26307 MATOS, P.

Civil aviation and cardiology - Admission rules and follow-up of the technical flying personnel of TAP-Air

MATOUR, DEBORAH

Heterogeneity of changes in lymphoproliferative ability with increasing age p 79 A93-20662

MATRICARDI, P. M.

Dramatic reduction of meningococcal meningitis among military recruits in Italy after introduction of specific accination p 18 N93-11303 The screening of inhalant allergic diseases in the vaccination

selection of candidates for aircraft piloting

p 21 N93-11312

MATRICARDI, PAOLO M.

Clinical and immunological response to vaccination with parenteral or oral vaccines in two groups of 30 recruits p 19 N93-11305

MATSON, JACK E.

Development of a prototype interactive learning system using multi-media technology for mission independent training program p 100 N93-17310 MATSON, W. R.

Rett syndrome - Stimulation of endogenous biogenic p 164 A93-28697 amines

MATSUDA, GENICHI

Contribution of psychiatry to life in space p 56 A93-15529

MATSUHIRA, NABUTO

Research of a free-flying telerobot. IV - Development p 411 A93-56254 of dual-arm manipulation system

MATSUL NOBUO

Modification of water and electrolyte metabolism during head-down tilting by hypoglycemia in men

MATSUMOTO, K.

p 92 A93-20029

Working hours and fatigue of Japanese flight attendants p 171 A93-28762

MATSUMOTO, KOHTARO

Design of a display system for a human pilot's p 27 A93-11201 supervisory tasks Telemanipulation experiment using predictive display

MATSUNAGA, T.

Neuropharmacology of motion sickness and emesis p 271 A93-39711 Motion sickness induced by sinusoidal linear p 272 A93-39712 acceleration in rats

MATSUNO, KOICHIRO

Catalytic accretion of thermal heterocomplex molecules from amino acids in aqueous milieu p 354 A93-43793 MATTHEWS, CLIFFORD N.

Dark matter in the solar system - Hydrogen cyanide p 110 A93-17987 polymers

MATTHEWS, GERALD

p 287 A93-40771 Cognitive predictors of vigilance MATUS, V. K.

Ozone - A new aspect of its effect on microorganisms p 398 A93-54971

MATUSOF, RON

Acoustical and vibratory stimuli interdependencies and their applications in simulation and cue synchronization [AIAA PAPER 93-3562] p 406 A93-52662

MATYUF, MARGARET M.

Behavioral validation of a hazardous thought pattern p 176 A93-27142 instrument

MAUZERALL, DAVID

Photo and thermal reactions of ferrous hydroxide p 269 A93-36561

MAY, BRADLEY W.

A progressive resistance weight training program designed to improve the armor crewman's strength IAD-A2555531 p 53 N93-14556

MAY, L. L. Relative resistance of biofilms and planktonic cells of

common molds and yeasts to antimicrobials ISAE PAPER 9212121 p 273 p 273 A93-41388

MAYBURY, MARK T.

Intelligent virtual interfaces for telerobotics

p 193 A93-29136 MAYR, B.

27 years armed forces aerospace pathology and toxicology in the Federal Republic of Germany: Development, current status, trends and challenges

p 126 N93-19696

o 31 N93-11743

Sustaining health and performance in the cold: Environmental medicine guidance for cold-weather

IAD-A2543281 p 23 N93-12145 Sustaining health and performance in the cold: A pocket guide to environmental medicine aspects of cold-weather

operations AD-A2596251 p 218 N93-24021

MAZURCZAK, J.

System for generating dynamic video imagery for human factors research

IAD-A2486751

MAZURIN, YU. V. The limits of human impact acceleration tolerance IAIAA PAPER 93-3572] p 400 A93-52692

MCADAMS, DANIEL A.

Conceptual design of a fleet of autonomous regolith throwing devices for radiation shielding of lunar habitats [NASA-CR-192078] · p 108 N93-17806

Conceptual design of a fleet of autonomous regolith throwing devices for radiation shielding of lunar habitats [NASA-CR-192030] p 139 N93-18018

MCADAMS, T.

Space habitat contaminant growth models. II p 345 A93-42094

MCANUALTY, D. M.

An evaluation of crew coordination and performance during a simulated UH-60 helicopter mission

[AD-A254984]

MCANULTY, D. M. Human factors research in aircrew performance and training: 1986-1991

IAD-A2544551 The effects of superimposing symbology on a simulated

night vision goggle display JAD-A263458 J p 354 N93-30590

MCARTHUR, J. R.

Fundamental diagnostic hematology: Anemia (second edition) [PB93-188662] p 338 N93-31140

B-40

PERSONAL AUTHOR INDEX **MEDIONI, GERARD** Fundamental diagnostic hematology: The bleeding and MCCUAIG, K. A physico-chemical study of some areas of fundamental clotting disorders (second edition) Aseptic technique in microgravity p 168 A93-28737 ignificance to biophysics p 338 N93-31158 IPB93-1886701 p 40 N93-13083 MCCUAIG, K. E. IDE92-0199161 MCBEATH MICHAEL K. Management of trauma and emergency surgery in MCGOWAN GREG Perceptual bias for forward-facing motion p 167 A93-28734 Training effectiveness assessment: Where are we? MCCUE. SAMUEL p 339 A93-44940 p 342 N93-30679 Interaction of various mechanical activity models in MCBRINE, JOHN J. MCII WAIN-AXTEN, CAROL J. regulation of myosin heavy chain isoform expression Physiological responses to wearing the space shuttle An analytical model of the aircrew oxygen breathing launch and entry suit and the prototype advanced crew D 327 A93-44184 p 137 A93-25123 MCCUE, SAMUEL A. MCKAY, A. J. escape suit compared to the unsuited condition Activity-induced regulation of myosin isoform distribution Peripheral arterial thrombosis related to commercial MCCAIN, P. J.

Comet Halley as an aggregate of interstellar dust and Comparison of two contractile activity programs airline flights - Another manifestation of the economy class p 326 A93-44183 syndrome p 215 A93-32775 further evidence for the photochemical formation of MCCULLOUGH, ROBERT E. MCKAY, C. P. The possibility of life on Mars during a water-rich past organics in the interstellar medium p 108 A93-17824 Hypoxic ventilatory responsiveness in Tibetan compared with Han residents of 3,658 m MCCALLUM, MARK E. p 280 A93-41120 p 196 A93-27887 Minimal hypoxic pulmonary hypertension in normal Time stress measurement devices for enhancement of MCKAY, CHRISTOPHER P. p 144 N93-19762 Tibetans at 3.658 m onboard bit performance p 280 A93-41121 Relevance of antarctic microbial ecosystems to MCCULLOUGH, ROSANN G. MCCANN, ROBERT S. p 355 A93-44877 evobiology Locus of the single-channel bottleneck in dual-task Hypoxic ventilatory responsiveness in Tibetan compared Mars: A reassessment of its interest to biology p 113 N93-18550 p 55 A93-14098 with Han residents of 3,658 m. n 280 A93-41120 interference The role of spatial attention in visual word processing Minimal hypoxic pulmonary hypertension in normal MCKAY, TIM Tibetans at 3.658 m p 280 A93-41121 Display format and highlight validity effects on search MCDANIEL, ROBERT L MCCARDIE, A. H. performance using complex visual displays p 187 A93-27160 An automated version of the dichotic listening test: Subjective mood and fatigue of C-141 crew during Desert p 370 N93-32264 Hardware, software, and procedural details MCKEE, JAMES W. C-141 aircrew sleep and fatigue during the Persian Gulf [AD-A258114] p 120 N93-17895 The ECLSS advanced automation project evolution and A computer-based visual analog scale p 371 N93-32265 p 312 N93-27723 technology assessment Digital flight data as a measure of pilot performance associated with fatigue from continuous operations during [AD-A258152] p 122 N93-18280 MCKEE, SUZANNE MCCARTHY, J. Visual processing of object velocity and acceleration the Persian Gulf conflict Combined strength and endurance training: Functional p 371 N93-32268 IAD-A2610481 p 265 N93-25778 and morphological adaptations to ten weeks of training MCDONALD, K. S. MCKELVIE, R. S. Effect of hindlimb unweighting on single soleus fiber [AD-A261059] p 267 N93-26229 The effects of variations in the anti-G straining maneuver maximal shortening velocity and ATPase activity MCCAULEY, M. E. on blood pressure at + Gz acceleration The accelerative stimulus for motion sickness p 377 A93-49294 p 118 A93-25204 MCDONALD, M. P. p 410 A93-55938 MCKENZIE, IAN Baroreflex function and cardiac structure with moderate MCCAULEY, MICHAEL E. Incidence of cardiac dysrhythmias occurring during Spatial orientation and dynamics in virtual reality systems
Lessons from flight simulation p 178 A93-27185 endurance training in normotensive men centrifuge training p 384 A93-52297 p 332 A93-44182 MCKEON, PATRICK S. Lessons from flight simulation MCDONALD, MARCIA L. Cybersickness - Perception of self-motion in virtual Air Traffic Control facility lighting p 188 A93-27167 p 381 A93-49402 p 406 A93-55949 environments Using tactile information in telerobotics MCKIBBEN, MARK A study of the effects of micro-gravity on seed ermination p 40 N93-13167 p 138 A93-25482 Motion and human performance A demonstration of motion base design alternatives for MCDOUGALL, SKYE germination the National Advanced Driving Simulator Cellular immunosenescence - An overview MČKINLEY, B. A. [NASA-TM-103881] p 236 N93-24490 p 80 A93-20663 The clinical chemistry and immunology of long-duration Autonomic physiological data associated with simulator p 169 A93-28754 space missions MCDOWELL, EDWARD D. discomfort MCKINNEY, EARL H., JR. Man-machine interface with simulated automatic target [NASA-CR-1776091 p 222 N93-24738 Flight leads and crisis decision-making recognition systems p 147 N93-19781 MCCAULLEY, JAMES B. p 404 A93-55161 MCELROY, J. F. Two techniques for measuring locomotion impact forces MCLAUCHLAN, PHILIP F. SPE water electrolyzers in support of the lunar outpost p 315 N93-27977 A modular head/eye platform for real-time reactive during zero G [NASA-TP-3305] p 217 N93-23410 MCELROY, JAMES F. MCCLEEREY, MICHELLE IOUFI-1941/921 n 320 N93-28897 A low pressure electrolyzer for the next generation Gloved operator performance study MCLEAN, GARNET submarine p 104 N93-16048 [AD-A2568941 Comparison of portable crewmember protective [SAE PAPER 921125] p 291 A93-41316 breathing equipment (CPBE) designs [DOT/FAA/AM-93/6] MCCLOSKEY, KATHY MCENTIRE, B. J. Individual differences and subgroups within populations p 310 N93-27121 Fatal mishap report - First SPH-4B flight helmet - The shopping bag approach p 136 A93-24050 MCLEAN, GARNET A. recovered from a U.S. Army helicopter mishap Methods for test and evaluation of night vision goggle Comparisons of molecular sieve oxygen concentrators p 393 A93-52308 integrated helmets p 188 A93-27182 for potential medical use aboard commercial aircraft An automated method for determining mass properties p 31 N93-11279 MCCORMACK, A. [AD-A253648] [AD-A259924] p 236 N93-24441 Tests characterizing bioprocessor hardware for MCLEAN, J. analytical modeling MCEWEN, GARY The development of an automated cell culture system Psychiatric diagnoses aboard an aircraft carrier p 307 A93-41516 [SAE PAPER 921357] for use in space life science research MCCORMACK, ANN p 57 A93-16162 p 158 N93-21085 Techniques for optimal crop selection in a controlled MCFADDEN, CARL D. MCLELLAN, T. M. Analysis of the Variable Pressure Growth Chamber using ecological life support system Influence of temperature and metabolic rate on work the CASE/A simulation package [NASA-TM-103950] performance with Canadian Forces NBC clothing p 33 N93-12018 ISAE PAPER 921122] p 389 A93-49218 MCCORMACK, ANN C. p 291 A93-41314 Plant canopy transpiration in bioregenerative life support Continuous vs. intermittent work with Canadian forces Computer modeling of the Variable Pressure Growth systems - The link between mechanistic and empirical Chamber using the CASE/A simulation package p 389 A93-49219 MCMAHON, THOMAS A.

Energetics of walking and running - Insights from ISAE PAPER 921354) models p 306 A93-41513 [SAE PAPER 921355] p 306 A93-41514 MCFARLANE, CRAIG MCCORMICK, ARTHUR K., III simulated reduced-gravity experiments Anatomy and physiology of plant conductive systems IPB93-1560321 p.245 N93-25877 Air Handling and Atmosphere Conditioning systems for p 116 A93-21687 MCMANIS, SUSAN E. manned spacecraft - A design and performance data MCFAYDEN, G. M. Neuropsychiatric morbidity in early HIV disease: Implications for military occupational function survey [SAE PAPER 921350] Space biology initiative program definition review. Trade p 306 A93-41509 study 1: Automation costs versus crew utilization MCCORMICK, DAVE p 18 N93-11299 p 208 N93-23070 Quick-disconnect harness system for helmet-mounted MCNEESE, MICHAEL D. MCFETERS, GORDON A. Computer-supported collaborative work - A new agenda p 228 A93-30065 Microbiological concerns and methodologi approaches related to bacterial water quality methodological for human factors engineering MCCORMICK, M. p 348 A93-42841 MCPHERSON, A.

Effects of a microgravity environment on the Metabolic factors influencing myocardial recovery from spaceflight acidosis (CiC3) [SAE PAPER 921232] p 297 A93-41406 IAD-A2523761 p 14 N93-10796 crystallization of biological macromolecules MCGAUGH, JAMES L. p 357 A93-45995 MCCRARY, BRIAN F. Analysis of neural systems involved in modulation of Ethical concerns in the practice of military aviation MCVEY, D. S. memory storage p 89 A93-18045 Effects of antiorthostatic suspension and corticosterone IAD-A262418 I p 283 N93-27654 MCCRAY, SCOTT B. on macrophage and spleen cell function MCGHEE, JERRY R. p 153 A93-28693 of breadboard Operation liquid-sorbent/membrane-contactor system for removing Lunar base thermal management/power system MEANS, ROBERT W. analysis and design p 315 N93-27985 Neural network retinal model real time implementation carbon dioxide and water vapor from air p 304 A93-41483 [SAE PAPER 921321] MCGLYNN, S. P. [AD-A255652] p 52 N93-14210

A physico-chemical study of some areas of fundamental

p 40 N93-13034

significance to biophysics

[DE92-019917]

MEDIONI, GERARD

3-D surface description from binocular stereo

A novel membrane device for the removal of water vapor

p 304 A93-41484

and water droplets from air

|SAE PAPER 921322|

p 61 A93-14727

MEDVEDEV, O. S. PERSONAL AUTHOR INDEX

MEDVEDEV. O. S.

Dynamics of the central and peripheral circulation of active rats on the first day of antiorthostatic hypokinesia (The role of training) p 242 A93-35261

MEDVEDOVSKY, C.

Accelerated heavy particles and the lens. VIII Comparisons between the effects of acute low doses of iron ions (190 keV/microns) and argon ions (88 p 216 A93-32784

MEEHAN, R. T.

Alteration in human mononuclear leucocytes following space flight p 165 A93-28705 Intraocular pressure and retinal vascular changes during transient exposure to microgravity p 278 A93-39710 MEEHAN, RICHARD T.

Cerebral blood velocity and other cardiovascular responses to 2 days of head-down tilt

p 280 A93-41122 Immunology presentation at the 1990 NASA/NSF Antarctica Biomedical Science Working Group p 81 N93-16806

MEISEL, SIMCHA

Acute hypertensive response to +Gz acceleration in mildly hypertensive pilots p 386 A93-52307 MEISTÉR, R.

Mechanisms of microwave induced damage in biologic materials

AD-A255799] MEJGAL, A. YU.

p 42 N93-14648

Electromyographic patterns of the thermoregulatory activity of motor units during cooling of the organism p 360 A93-46968

MEL'NIK, S. G.

Diagnostics and prophylaxis of adverse psychological states in marine aviation flight personnel

p 257 A93-36744

MEL'NIKOV, L. N.

K.E. Tsiolkovsky on the problem of human survival in extreme environments (On the earth and in space)

MELCHER, G. P.

Early markers of HIV infection and subclinical disease progression
MELCHIOR, FRANCOIS M. p 17 N93-11296

Orthostatic intolerance during a 13-day bed rest does not result from increased leg compliance

p 280 A93-41119

MELESHKO, G. I. The first 'space' vegetables have been grown in the 'SVET' greenhouse using controlled environmental

p 394 A93-52410 MELLERSH. A. R. A model for the prebiotic synthesis of peptides which throws light on the origin of the genetic code and the p 412 A93-56000 observed chirality of life

MELOT, CHRISTIÁN

Mechanisms of improved arterial oxygenation after peripheral chemoreceptor stimulation during hypoxic p 331 A93-42188 MELTON, J. E.

Modulation of respiratory responses to carotid sinus erve stimulation by brain hypoxia p 79 A93-20038

MELZER, JAMES E.

Color helmet display for the tactical environment - The p 227 A93-30058 pilot's chromatic perspective MENAKER, MICHAEL

Control and circadian behavior by transplanted suprachiasmatic nuclei

[AD-A264553] p 335 N93-30382

MENCHUKOV. O. N.

Validation of the use of the helium-neon laser in the medical rehabilitation of patients with atrophy

p 248 A93-35228

MENDOZA-GOMEZ, C. X.

Comet Halley as an aggregate of interstellar dust and further evidence for the photochemical formation of organics in the interstellar medium p 108 A93-17824 MENDOZA-GOMEZ, CELIA X.

Laboratory simulation of organic grain mantles

p 268 A93-36554

MENDZHERITSKII, A. M. Electrophysiological and ultrastructural aspects of the effect of high-pressure oxygen on the sensomotor cortex p 77 A93-18300

MENDZHERITSKIJ. A. M.

Changes in the intensity of free-radical reactions in the organs of rats under hypokinetic stress, protected by the delta-sleep-inducing peptide and its tyrosine-containing p 378 A93-51101

MENENDEZ. V.

Development of a 500 hPa shoulder joint for the European EVA Space Suit System p 299 A93-41427 [SAE PAPER 921257]

MENG. JING-RUI

The responses of cardiovascular during head-up tilt plus p 9 A93-11690 lower body negative pressure

MENG, JINGRUI

Changes of REG during 4h head-down bed-rest

p 46 A93-16075

p 10 A93-13529

Effects of two kinds of Chinese herb medicine on rabbit's ear microcirculation under simulated weightlessness

p 327 A93-44842 Experimental research of the temperature and humidity

control system for manned spacecraft cabin

MENKES, ALEX M. Automated system for analyzing the activity of individual p 173 N93-22163 neurons

MENON, P. K. A.

Comment on 'Optimum vehicle acceleration profile for minimum human injury' by C. P. Hatsell p 392 A93-49607

MENU. J. P.

Cognitive factors in the air events of the Air Force during p 134 N93-19682 the last decade

MERHAV. S. J.

Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays

p 311 N93-27177

MERKEL, L.

Technology test results from an intelligent, free-flying robot for crew and equipment retrieval in space

p 184 A93-27037

MERKEL, PHILIP A. From pilot's associate to satellite controller's p 32 N93-11922 associate

MERKER. H. J.

The influence of military low-altitude flight noise on the inner ear of the guinea pig. II - Scanning electron micrographs p 377 A93-49556 micrographs

MERLE, LILIANE

Some biochemical properties of an acyclic oligonucleotide analogue - A plausible ancestor of the, p 269 A93-36560

MERLE, YVES

Some biochemical properties of an acyclic oligonucleotide analogue - A plausible ancestor of the p 269 A93-36560

MERRICK, V. K.

Simulation and flight test evaluation of head-up-display guidance for Harrier approach transitions

p 28 A93-13331 AIAA PAPER 92-4233 |

MERRITT, JOHN O.

Stereoscopic displays and applications III; Proceedings of the Meeting, San Jose, CA, Feb. 12, 13, 1992 [SPIE-1669] p 408 A93-53119 A low cost helmet-mounted camera/display system for field testing teleoperator tasks p 408 A93-53122 MERRY, R. T.

Electroencephalogram epileptiform abnormalities in candidates for aircrew training p 170 A93-28757 MERTENS, HENRY W.

Validity of clinical color vision tests for air traffic control specialists

[AD-A258219] p 123 N93-18301

MESCHER, ANTHONY L. Nerves and tissue repair

AD-A255299 J p 53 N93-14535

MESSENGER, A. J.

Design guide for the ergonomic aspects of helicopter

crew seating p 65 N93-13464 USVR-TR-2091

MEWHINNEY, JAMES A. p 104 A93-20779

Beryllium toxicity - An update MEYER, G.

Effects of simulated microgravity (HDT) on blood p 44 A93-14972 MEYER, L. G.

A review of models of the human temperature regulation evetem

[AD-A258023] p 120 N93-17918

MEYER, M.

Pulmonary responses to lower body negative pressure and fluid loading during head-down tilt bedrest p 162 A93-28682

The effects of a 10-day period of head-down tilt on the cardiovascular responses to intravenous saline loading p 163 A93-28686

MEYER, M. I.

Cardiopulmonary function during 10 days of head-down p 162 A93-28683 tilt bedrest

The influence of military low-altitude flight noise on the inner ear of the guinea pig. I - Hearing threshold measurements p 377 A93-49555

MEYLOR, JOHN

Norepinephrine content in discrete brain areas and neurohypophysial vasopressin in rats after a 9-d spaceflight p 273 A93-41167 MEZIDOVA, KH. A.

Effect of high temperature on the beta-adrenoreceptor activity and the catecholamine synthesis

p 39 A93-16750

MEZZAROMA, IVANO p 16 N93-11293

Silent HIV infection MIAN, ARSHAD

Dark cycle monitoring of biological specimens on Space Station Freedom

[SAE PAPER 921393]

MIAO, ADAM X. Multistage integration model for human egomotion

perception I AIAA PAPER 93-3564 | p 406 A93-52664

MICHALEK, JOEL E.

Immunological parameters in current and former US Air p 16 N93-11295 Force personnel

MICHAL OPOULOU. S.

Correlation of serum alpha sub 1 antitrypsin with cigarette smoking and pulmonary function status in Greek pilots, for a ten year period p 22 N Lipidemic profile of Hellenic Airforce officers p 22 N93-11318

p 362 N93-32250

p 258 N93-25736

p 378 A93-51101

p 123 N93-18301

MICHEL C. M.

Duration of alpha suppression increases with angle in a mental rotation task

[AD-A261592] p 260 N93-26435 MICOCCI, ANGÉLO

Evaluation of lens distortion errors in video-based motion analysis

[NASA-TP-3266]

MIDDELBERG, JAN Alteration of structure and mobility of erythrocyte aggregates under normal- to microgravity conditions

p 200 A93-32072

MIDKIFF, ALAN Hazard alerting and situational awareness in advanced p 61 A93-14377

air transport cockpits MIDORIKAWA, Y.

CELSS nutrition system utilizing snails

p 394 A93-52411 MIDORIKAWA, YOSHINORI

A trade study method for determining the design parameter of CELSS subsystems p 295 A93-41374

[SAE PAPER 921198]

MIETUS, J. Long-range anticorrelations and non-Gaussian behavior p 161 A93-28049 of the heartbeat

MIGNET, M.

Fires on board aircraft: Toxicological risk in flight

p 126 N93-19694 MIGNON, GEORGE

Closed ecological systems: From test tubes to Earth's p 315 N93-27976 biosphere

MIKELL, A. T., JR.

Microbiological methods for the water recovery systems test, revision 1.1

[NASA-CR-184390] p 64 N93-12966 MIKHALEVA, I. I.

Vagotropic effects of peptides isolated from the brain of hibernating susliks p 38 A93-16749 Changes in the intensity of free-radical reactions in the organs of rats under hypokinetic stress, protected by the delta-sleep-inducing peptide and its tyrosine-containing

analogue

MIKI, K. Cardiovascular responses to upright tilt at a simulated p 212 A93-30281 altitude of 3,700 m in men

MIL'KOV, A. A.

Some characteristics of the etiopathogenesis of hearing p 359 A93-45691 loss in aircraft personnel

MILBURN, NELDA J. Validity of clinical color vision tests for air traffic control

specialists [AD-A258219]

MILGRAM, PAUL

A telerobotic virtual control system p 183 A93-27030

MILIUTINA, N. P.

Peroxidative oxidation of lipids and chromosome aberrations in mice after repeated exposures to a helium-oxygen respiration mixture under hyperbaric p 243 A93-35672

MILLARD-STAFFORD, MINDY L.

Monitoring core temperature during exercise - Ingestible sensor vs. rectal thermistor p 394 A93-52309

MILLARD, DOUGLAS L.

of а liquid-sorbent/membrane-contactor system for removing carbon dioxide and water vapor from air p 304 A93-41483

[SAE PAPER 921321] MILLER, ADAM M.

Computer modeling of the Variable Pressure Growth Chamber using the CASE/A simulation package p 306 A93-41513 [SAE PAPER 921354]

B-42

Plant growth modeling at the JSC variable pressure MISCONI, N. Y. Hemodynamic and hormonal correlates with exposure growth chamber - An application of experimental design Studies of a laser/nuclear thermal hardened body to lower body negative pressure after 12 hours head-down |SAE PAPER 921356| p 307 A93-41515 armor tilt p 379 A93-49220 MILLER, CAROLYN L. IAD-A2551281 MIYAMOTO, NORIHIRO Recovering potable water from wastewater in space MISHANKIN, B. N. Modification of water and electrolyte metabolism during platforms by lyophilization Characterization and classification of strains of head-down tilting by hypoglycemia in men |SAE PAPER 921323| p 304 A93-41485 Francisella tularensis isolated in the central Asian focus p 92 A93-20029 Extraction of potable water from urine for space of the Soviet Union and in Japan MIYAO, M. [FOA-B-40421-4.4] p 275 N93-28200 applications p 345 A93-42121 Working hours and fatigue of Japanese flight attendants MISHRA, S. K. MILLER CHRISTOPHER R (FA) p 171 A93-28762 A microfermentation test for the rapid identification of MIZUKOSHI, K. Passive zero-gravity leg restraint p 156 A93-28733 Effect of transdermally administered scopolamine on the veasts NASA-CASE-ARC-11882-1-CU p 70 N93-14713 Microbiology operations and facilities aboard MILLER, DONNA J. vestibular system in humans p 383 A93-49572 restructured Space Station Freedom Salivary total protein and experimental Coriolis Hybrid 2 and hybrid 3 dummy neck properties for [SAE PAPER 921213] p 296 A93-41389 p 383 A93-49573 computer modeling Effects of refrigerating preinoculated Vitek cards on MIZUMOTO, CHIEKO [AD-A255544] p 66 N93-13874 microbial physiology and antibiotic susceptibility The effect of G-experience on heart rate during +Gz MILLER, EDWARD A. p 273 Á93-41390 |SAE PAPER 921214| p 333 A93-45322 loading A paradigm shift in Air Force medicine Altered immunological response in mice subjected to stress and exposed to fungal spores MIZUMOTO, KIYOSHI [AD-A258334] p 121 N93-18159 Psychophysiological study on the effects of co-existence MILLER, J. H. SAE PAPER 9212151 p 274 A93-41391 p 405 A93-55330 of lines for detecting dot target Radiation damage to DNA MITANI, KENJI MODI, V. J. IDE92-0157601 p 5 N93-10834 Experimental and theoretical study on membrane On the control of a class of flexible manipulators using MILLER, JAMES C. distillation using thermopervaporation p 231 A93-31533 feedback linearization approach A demonstration of motion base design alternatives for ISAE PAPER 9213971 p 309 A93-41554 MODIN, A. IU. the National Advanced Driving Simulator MITCHELL, CARY A. Hemodynamic status of humans during a graded LNASA-TM-1038811 p 236 N93-24490 productivity and sustainability of a Biomass orthostatic test p 248 A93-35221 Autonomic physiological data associated with simulator bioregenerative life-support system Altitude stress and cosmonaut training discomfort [SAE PAPER 921359] p 307 A93-41518 p 262 A93-35235 [NASA-CR-177609] Stimulation of lettuce productivity by manipulation of p 222 N93-24738 MOE. LINDA urnal temperature and light p 327 A93-44879
Modification of yield and chlorophyll content in leaf MILLER, JAMES GRIER diurnal temperature and light Factors that affect depth perception in stereoscopic Applications of living systems theory to life in space displays p 230 A93-30455 lettuce by HPS radiation and nitrogen treatments MOELLÉR, C. L. p 105 N93-16865 p 328 A93-44880 Effects of spaceflight on the proliferation of jejunal MILLER, K. P. Effects of incandescent radiation on photosynthesis, mucosal cells Success rate analysis of Navy SERGRAD Flight growth rate and yield of 'Waldmann's Green' leaf lettuce Training [NASA-CR-191303] p 51 N93-13449 p 56 A93-16152 p 357 A93-46468 MOFFITT, KIRK W. MILLER, KAREN Growth and yield characteristics of 'Waldmann's Green' Color helmet display for the tactical environment - The pilot's chromatic perspective p 227 A93-30058 Hydrogen-rated system for in vitro studies at pressure: leaf lettuce under different photon fluxes from metal halide p 227 A93-30058 Operating procedures and emergency procedures or incandescent + fluorescent radiation MOGFORD, RICHARD H. p 336 N93-30882 IAD-A2641791 p 357 A93-46469 The air traffic controller's mental model and it's MILLER, MARK R. Minitron II system for precise control of the plant growth implications for equipment design and trainee selection Structured interviews for pilot selection - No incremental p 357 A93-46470 p 341 N93-30322 environment validity p 286 A93-39572 The Minitron system for growth of small plants under MOHLER, STANLEY R. MILLER, MARK S. controlled environment conditions p 358 A93-46471 Operational medicine on the lunar base LIAC - A closed ecosystem research facility Effects of CO2 and photosynthetic photon flux on yield, p 48 A93-17430 p 347 A93-42129 gas exchange and growth rate of Lactuca sativa L Autonomous support for microorganism research in p 397 A93-52723 Waldmann's Green' Mechanisms of microwave induced damage in biologic MITCHELL, CHRISTINE M. materials INASA-CR-1920621 p 83 N93-17780 Human-computer cooperative problem solving in atellite ground control p 188 A93-27163 [AD-A255799] p 42 N93-14648 MILLER, MICHAEL L. satellite ground control MOLEVA, E. B. Cognitive engineering models in space systems Dynamics of the central and peripheral circulation of Effects of space radiation on humoral and cellular p 141 N93-18517 immunity in rhesus monkeys INASA-CR-192001 I active rats on the first day of antiorthostatic hypokinesia MITCHELL, HEATHER K. p 242 A93-35261 [AD-A261808] p 246 N93-26259 (The role of training) MILLER R V. Chloroflexus aurantiacus and ultraviolet radiation -MOLINA. E. A. Implications for Archean shallow-water stromatolites A computer-based visual analog scale Ground based simulation in test and evaluation p 400 A93-55999 p 122 N93-18280 [AD-A258152] education MITCHELL, JENNIFER A. MOLINA, T. C. LAIAA PAPER 92-40661 p 24 A93-11252 A comparison of two scoring procedures with the NASA A microfermentation test for the rapid identification of MILLER, ROBERT E., II task load index in a simulated flight task veasts p 156 A93-28733 Night vision manual for the flight surgeon p 349 A93-42849 MOLINE, MARGARET 1AD-A2570591 p 104 N93-15710 MITCHELL, NANCY B. The effects of an antijet lag diet p 370 N93-32263 MILLER, STANLEY L. Selecting Space Station Freedom hardware MOLINO, JOHN A. Comment on 'Summary and implications of reported p 188 A93-27184 Evaluating robot procedures and tasks for the flight amino acid concentrations in the Murchison meteorite' by MITCHELL, R. E. p 187 A93-27156 telerobotic servicer p 412 A93-53294 E. L. Shock and M. D. Schulte Aviation medicine research: A historical review MOLLARD, R. MILLS, T. IAD-A2581981 p 121 N93-18217 An assessment of the deflecting effect on human Comets and the formation of biochemical compounds movement due to the Coriolis inertial forces in a space vehicle p 170 A93-28758 MITCHELL, RALPH p 109 A93-17977 on the primitive earth - A review Biodeterioration of materials in water reclamation MILLS, THOMAS M. Human factors and the safety of flights: The importance Europa: Prospects for an ocean and exobiological p 303 A93-41473 p 371 N93-32267 ISAF PAPER 9213111 of the management of sleep MOLLOY, ROBERT implications p 113 N93-18552 MITCHELL, RICHARD B. MINASIAN, S. M. Intelligent virtual interfaces for telerobotics Performance consequences of automation-induced The effect of cortical vestibular area stimulation on the p 193 A93-29136 'complacency' omplacency' p 286 A93-39571 Adaptive automation and human performance. 3: Effects activity of the neurons of lateral vestibular nuclei during MITSUYA, AKIRA vibration P 2 A93-12863 of practice on the benefits and costs of automation Theoretical and experimental studies for continuous nath MINER, JUDSON C. shifts control of flexible manipulator mounted on a free-flying [AD-A254381] Immunological parameters in current and former US Air p 64 N93-12860 Force personnel p 16 N93-11295 MÒLNAR, D. E. [AIAA PAPER 93-3863] p 392 A93-51449 MING, D. W. Evaluation of test methods and requirements for MITTELMAN, MARC W. Utilization of on-site resources for Regenerative Life respiratory protection systems 21 Biofilm ecology of bioluminescent bacteria AD-A2624661 Support Systems at a lunar outpost p 346 A93-42124 p 317 N93-28757 p 42 N93-14532 [AD-A255282] MING, DOUGLAS W. MOLVAER, O. I. MITTELMAN, MICHAEL H. Active synthetic soil Vestibular problems in diving and in space Contact tenses in aviation - The Marine Corps p 169 A93-28747 INASA-CASE-MSC-21954-1-NP1 p 114 N93-19054 p 289 A93-41172 MINTON, SILVIA experience MONEY, K. MIWA, CHIHIRO The analytical control program for the NASA Space Aimed arm movements under changed gravity Effect of water immersion on muscle sympathetic nerve Station Freedom Environmental Control and Life Support p 193 N93-21113 response during static muscle contraction System (ECLSS) Water Recovery Test MONEY, KENNETH E. p 402 A93-55328 SAE PAPER 921269 p 300 A93-41439 Accuracy of aimed arm movements in changed gravity MIYACHI, MOTOHIKO MIQUEL, JAIME p 56 A93-16159 Influence of viscous resistance on heart rate and oxygen An overview of gravitational physiology Alterations of proprioceptive function in the weightless

uptake during treadmill walking in water

The cardiovascular system

MIYAMOTO, AKIRA

p 94 A93-20898

p 46 A93-15530

p 35 N93-12319

p 405 A93-55948

NASA-TM-1028491

MIRABILE, CHARLES S., JR.

Motion sickness susceptibility and behavior

p 86 A93-17549 p 399 A93-55930

p 403 A93-55941

Motion sickness and evolution

Spacelab 1

Space motion sickness monitoring experiment

MONK, DONALD L.

Human performance data visualization for system design p 348 A93-42840

MONK JOHN M

A preliminary empirical evaluation of virtual reality as an instructional medium for visual-spatial tasks

p 367 N93-32151

MONK, TIMOTHY H.

Sleep and circadian rhythms p 94 A93-20659 MONNIN, KIMBERLY A.

Influence of simulated microgravity on the maximal oxygen consumption of nontrained and trained rats

MONTAIN, SCOTT J.

Influence of graded dehydration on hyperthermia and cardiovascular drift during exercise p 44 A93-14971 MONTAZER, M. A.

The effect of roll-stabilized sensor information on pilot performance p 175 A93-27130

MONTEMERLO, M. D.

NASA's telerobotics research program

p 263 A93-35566

MONTGOMERY, L. D.

Cortical localization of cognitive function by regression of performance on event-related potentials p 9 A93-10337

MONTGOMERY R. W.

Cortical localization of cognitive function by regression of performance on event-related potentials

p 9 A93-10337 MONTGOMERY, RAYMOND C.

Evaluation of inertial devices for the control of large, flexible space-based telerobotic arms.

MONTOYA, RICHARD Balance and gait analysis after 30 days -6 deg bed rest Influence of lower-body negative-pressure sessions

p 48 A93-16161 MOORE-EDE. M. C.

Thermoregulatory responses of rhesus monkeys during p 154 A93-28706 spaceflight

MOORE, ĂLAN D., JR. Effect of aerobic capacity on Lower Body Negative

Pressure (LBNP) tolerance in females [NASA-TP-3298] p 128 N93-20318

MOORE, G.

Cases from the aerospace medicine residents' teaching file: Case No.52 - A flyer with syncope (clinical conference)

MOORE, GARY T.

Lunar base requirements for human habitability

p 345 A93-41995

р 101 A93-18710

Pay permanent Martian base: Space architecture for the first human habitation on Mars, volume 5 p 140 N93-18156 [NASA-CR-192042]

GENESIS 2: Advanced lunar outpost

p 352 N93-29760

MOORE, HOMER J.

Hydrogen-rated system for in vitro studies at pressure: Operating procedures and emergency procedures p 336 N93-30882 [AD-A264179]

MOORE, KEVIN C.

Pressure, composition, and temperature control of cabin atmosphere on Space Station Freedom

[SAE PAPER 921216] p 296 A93-41392

MOORE, LORNA G.

Hypoxic ventilatory responsiveness in Tibetan compared with Han residents of 3.658 m p 280 A93-41120

Minimal hypoxic pulmonary hypertension in normal p 280 A93-41121 Tibetans at 3,658 m.

MOORE, NATHAN R.

A study to explore locomotion patterns in partial gravity environments

[SAE PAPER 921157] p 293 A93-41340 An analysis of human performance in simulated p 347 A93-42173 partial-gravity environments

MOORE, ROBERT Y. Organization of the human circadian system

p 361 N93-32015 [AD-A264675]

MORALEZ, E., III

Simulation and flight test evaluation of head-up-display quidance for Harrier approach transitions p 28 A93-13331

[AIAA PAPER 92-4233]

MORAWSKI, JANUSZ

On cockpit (crew) resource management p 223 A93-31490

MORAWSKI, JANUSZ M.

Information management problems and their influence on cockpit equipment architecture of transport aircraft p 223 A93-31491

MOREAU, J.

Evaluation of zolpidem on alertness and psychomotor abilities among aviation ground personnel and pilots p 401 A93-55163 MOREY, JOHN C.

Attention factors associated with head-up display and helmet-mounted display systems n 235 N93-24001

MORGENTHALER, G. W.

Space habitat contaminant growth models. II p 345 A93-42094

MORGENTHALER, GEORGE W. NASA Specialized Center for Research and Training

(NSCORT) in space environmental health ISAE PAPER 9213581 p 307 A93-41517 Lunar base pressure, O2 fraction, and ExtraHabitat Activity suit design p 346 A93-42125

MORGENTHALER, MATTHEW K.

Real time proximity cues for teleoperation using model based force reflection p 184 A93-27033 MORGUN, V. V.

Dynamics of electroencephalographic indices during acute hypoxia p 402 A93-55333 MORI, SHIGEO

Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 MORIARITY, DEBRA M.

Establishing laboratory standards for biological flight experiments

[NASA-CR-184402] p 40 N93-12901

MORIKAWA, KAZUNORI

Perceptual bias for forward-facing motion p 339 A93-44940

MORITA, D. M.

Utilization of high energy electron beam in the treatment

of drinking and waste water DE92-642335 J p 372 N93-32406

MORITA. M.

Neuropharmacology of motion sickness and emesis p 271 A93-39711 Motion sickness induced by sinusoidal linear acceleration in rats p 272 A93-39712

MORK, MICHAEL R.

Prevalence of corrective lens wear in Royal Australian p 289 A93-41173

MORONEY, WILLIAM

An evaluation of miniaturized aircraft keyboards p 348 A93-42844

MORONEY, WILLIAM F.

A comparison of two scoring procedures with the NASA

task load index in a simulated flight task p 349 A93-42849

MOROZ. D. E.

The effects of variations in the anti-G straining maneuver on blood pressure at +Gz acceleration

MOROZ. J. S.

p 118 A93-25204 The effects of variations in the anti-G straining maneuver

on blood pressure at +Gz acceleration

p 118 A93-25204 MOROZOV. G. B. Study of the functioning of the central and the peripheral

contours of the thermoregulation system using a thermophysical model of the rabbit body p 111 A93-23075

The efficiency of thermoregulatory responses in the p 325 A93-43136 cooling of the organism MORRIS, ANDREW

Evaluation of personal cooling systems in conjunction with explosive ordnance disposal suits IAD-A2628621 p 350 N93-29471

Nutritional assessment of United States tactical air command pilots p 367 N93-32242

Cytokine secretion by immune cells in space p 153 A93-28694

MORRISON, DENNIS R.

Measuring the metastatic potential of cancer cells p 244 N93-25566

MORRISON, JEFFREY G.

Complex task performance as a basis for developing cognitive engineering guidelines in adaptive automation p 186 A93-27148

Human performance in complex task environments: A basis for the application of adaptive automation

p 35 N93-12486 [AD-A255067] The effects of display and response codes on information processing in an identification task p 234 N93-23451 AD-A259531

MORROW, D.

Influence of aging and practice on piloting tasks p 286 A93-39708

MORROW, D. G.

Aging, expertise, and narrative processing p 180 A93-28724

MORROW, DANIEL

The time-course of alcohol impairment of general aviation pilot performance in a Frasca 141 simulator p 384 A93-52299

MORROW, R. C.

A matrix-based porous tube water and nutrient delivery evetam

|SAE PAPER 921390| p 309 A93-41548 Scenarios for optimizing potato productivity in a lunar ELSS p 67 N93-13997 CELSS

MORSE, DAVID

Two circadian oscillators in one cell p 239 A93-34518

MORSE, STEPHEN E.

Interpupillary and vertex distance effects on field-of-view and acuity with ANVIS

[AD-A261259]

n 268 N93-26265 MORTIER, N.

Allergy screening and follow-up in student pilots of the Belgian Air Force (BAF) p 21 N93-11316

MORTIMER, A.

The development of an automated cell culture system for use in space life science research

p 158 N93-21085 MORTIMER ALAN

Space life sciences overview

MORUKOV, B. V. Effect of exercise and bisphosphonate on mineral balance and bone density during 360 day antiorthostatic

p 170 A93-28760 MOSER M Monitoring of cardiovascular parameters during the

p 220 N93-24367 AustroMir space flight MOSHER J. C. Biomagnetic localization from transient quasi-static

IDE93-0073281 n 253 N93-25186

MOSIER, GARY E.

Joint-space Lyapunov-based direct adaptive control of a kinematically redundant telerobot manipulator

p 407 A93-53038

p 303 A93-41472

p 158 N93-21074

MOSSAHEB, M.

Development and implementation of the MotoMir experiment on the Mir Space Station

p 220 N93-24363 MOUNIER, Y.

Functional adaptation of different rat skeletal muscles

p 377 A93-49575 to weightlessness MOYER, M. P. Rotating-wall vessel coculture of small intestine as a

prelude to tissue modeling - Aspects of simulated p 171 A93-28765 microgravity MOZO REN T.

Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with

standard issue earplugs [AD-A263011] p 350 N93-29406

Shape optimization of tibial prosthesis components NASA-CR-191123] p 246 N93-27085

MUDGETT, PAUL D. Evaluation of capillary electrophoresis for in-flight ionic

ontaminant monitoring of SSF potable water p 300 A93-41438 ISAE PAPER 921268 I Biofilm formation and control in a simulated spacecraft vater system · Three year results

ISAE PAPER 921310

AUDIMIR - Directional hearing at microgravity

p 159 A93-26570 Optovert: An AustroMir-1991 experiment. Orientational effects from optokinetic stimulation p 226 N93-24366

MUELLER CH OPTOVERT: An AUSTROMIR 91 experiment -Orientational effects from optokinetic stimulation

p 159 A93-26571

MUELLER, MANFRED W.

Group II intron RNA catalysis of progressive nucleotide insertion - A model for RNA editing p 398 A93-55292

MUGNIER, C. J. A new instrumentation system for measuring the dynamic response of the human head/neck during impact

p 143 N93-19672 acceleration MUIGG. A. Eve-head-arm coordination and spinal reflexes in

weightlessness

Orthostatic function during a stand test before and after p 84 A93-17530 head-up or head-down bedrest

MUKAI, CHIAKI N.

Acute hemodynamic response to weightlessness during p 86 A93-17547 parabolic flight

MUKHERJEE, P.

Heterogeneity of rat pituitary prolactin cells Relationships among location, hormone assay and estro p 358 A93-46606 cycle stage

MUKHERJEE PINKU

Prolactin-induced mitogenesis of lymphocytes from p 329 A93-44934

MULLER, J.

Effect of head-down tilt bedrest (10 days) on lymphocyte

MULLIGAN, JEFFREY B.

Anisotropy in an ambiguous kinetic depth effect

p 55 A93-14097

MULTER, JORDAN

Instrument-approach-plate design considerations for displaying radio frequencies p 289 A93-39574

MULVAGH, SHARON L.

Echocardiographic evaluation of the cardiovascular effects of short-duration spaceflight p 87 A93-17551 MUNOZ, KATHRYN A.

Spaceflight on STS-48 and earth-based unweighting produce similar, effects on skeletal muscle of young rats p 326 A93-44179

MUNSON, R.

The influence of dietary counseling and cardiac catheterization on lipid profiles in American military p 369 N93-32259

MURAI, TADASHI

Hemodynamic and hormonal correlates with exposure to lower body negative pressure after 12 hours head-down p 379 A93-49220

MURAKAMI, AKIRA

Short-term microgravity to isolate graviperception in cells p 111 A93-21901

Graviperception in unicellular organisms - A comparative behavioural study under short-term microgravity p 151 Á93-26548

MURAKAMI, SATOSHI

Human factors in the 'glass cockpit'

p 27 A93-11202

MURALI, PAZHAYANNUR S.

Altered immunological response in mice subjected to stress and exposed to fungal spores

[SAE PAPER 921215] p 274 A93-41391

MURASKO, DONNA M.

Heterogeneity of changes in lymphoproliferative ability with increasing age p 79 A93-20662

MURATA, YOSHIHARU

Modification of water and electrolyte metabolism during head-down tilting by hypoglycemia in men

p 92 A93-20029 MURDOCH, D. J.

Cancer risk assessment with intermittent exposure

p 171 A93-28766 MUROI, N. Research and development of sensing and manipulation

techniques for space robotics on a testbed [AIAA PAPER 93-07941 p 136 A93-24873

MUROTSU, YOSHISADA

Theoretical and experimental studies for continuous path control of flexible manipulator mounted on a free-flying space robot

(AIAA PAPER 93-3863) p 392 A93-51449

MURPHY, BARBARA A.

Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs p 350 N93-29406

MURPHY, OLIVER G.

Water purification, microbiological control, sterilization and organic waste decomposition using an electrochemical advanced ozonation process [SAE PAPER 921234] p 297 A93-41408

MURPHY, OLIVER J.

Post-treatment of reclaimed waste water based on an electrochemical advanced oxidation process [SAE PAPER 921275] p 301 A93-41444

MÙRRAY, DAVID W. A modular head/eye platform for real-time reactive

vision [OUEL-1941/92] p 320 N93-28897

Cerebral blood flow velocity in humans exposed to 24 of head-down tilt p 381 A93-49295

MUSACCHIA, X. J.

Rat cardiovascular responses to whole body suspension Head-down and non-head-down tilt p 37 A93-14974

MUSSO, GIORGIO

Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture

[SAE PAPER 9211931 p 295 A93-41371

MUTTER, SUSAN H.

Nutrition and hydration status of aircrew members consuming the food packet, survival, general purpose, improved during a simulated survival scenario p 128 N93-20384 IAD-A2587441

MUZA, STEPHEN

Field trial of caffeine on physical performance at altitude: An attempt to overcome the challenge

p 337 N93-30894 [AD-A264260]

MYERS, JENNIFER G.

Survey of aviation medical examiners: Information and attitudes about the pre-employment and pre-appointment drug testing program

IDOT/FAA/AM-92/151

p 218 N93-24088 A longitudinal examination of applicants to the air traffic control supervisory identification and development

DOT/FAA/AM-92/161 p 257 N93-25213

program ERS, K. J.

Emergency medical operations at Kennedy Space Center in support of space shuttle p 166 A93-28712 Phenytoin as a countermeasure for motion sickness in NASA maritime operations p 401 A93-55162

MYERS, STEVEN F.

Vestibular afferent responses to microrotational stimuli p 328 A93-44930 Hair cell tufts and afferent innervation of the bullfrog p 329 A93-44931 crista ampullaris

MYHRE, G.

The next generation female in cockpit: Do we need a new approach to cockpit resource management (CRM)? p 143 N93-19704

MYHRE, LOREN G.

Prediction of maximal oxygen uptake from submaximal exercise testing in aerobically fit and nonfit men

p 385 A93-52304

MYKITYSHYN, MARK Hazard alerting and situational awareness in advanced

p 61 A93-14377 air transport cockpits

MYZNIKOV. I. L.

The state of cardiac activity control in humans during cyclic changes of barometric pressure in a hermetic D 251 A93-35257 chamber

NACHEFF-BENEDICT, MAURENA S.

Immobilized cell bioreactors for water reclamation -Process stability and effect of reactor design p 301 A93-41446

[SAE PAPER 921277] NADEL, ETHAN R.

Effects of dynamic exercise on cardiovascular regulation during lower body negative pressure

p 281 A93-41168

NAEIJE, ROBERT

Mechanisms of improved arterial oxygenation after peripheral chemoreceptor stimulation during hypoxic exercise p 331 A93-42188

NAGAO, MITUSHIRO

Effects of head down tilt on hepatic circulation and metabolism in conscious dogs p 80 A93-20899

NAGY, ALLEN L.

Chromaticity and luminance as coding dimensions in p 103 A93-19989 visual search

NAITOH, PAUL

Sleep inertia: Is there a worst time to wake up? [AD-A256602] p 52 N93-14240

NAJIB. NAJI

Effects of gravity on gastric emptying, intestinal transit, p 85 A93-17543 and drug absorption

NAKAGAWA, S.

High-altitude pulmonary edema with thromboembolism p 278 A93-39709

NAKAGAWARA, VAN B.

The prevalence of artificial lens implants in the civil airman population p 253 N93-25214

IDOT/FAA/AM-92/141 NAKAMURA, AKIO

Relationship between alcohol drinking habit and blood pressure changes during the period of 25 years on JASDF p 333 A93-45321 aged pilots

NAKAMURA, YOUICHIROU

Manned lunar surface site: Conceptual study on pressurized lunar surface operation rover

p 316 N93-28032

NAKUYAMA, KEN Intermediate levels of visual processing

p 335 N93-30192 1AD-A2641171

NALETTE, TIMOTHY A.

Development of a regenerable metal oxide sheet matrix CO2 removal system p 302 A93-41463 ISAE PAPER 9212981

NALIZHITYI, V. M.

Functional state of the cardiovascular system of the cosmonauts of the sixth primary mission on the Mir p 249 A93-35238 station

NALIZHITYJ, V. M.

Dynamics of electroencephalographic indices during p 402 A93-55333 acute hypoxia

NARINSKAIA, A. L.

The asthenic syndrome and the dynamics of mental-work capacity p 256 A93-35241 NASH, P. V.

Variable lymphocyte responses in rats after space flight

NASIBULLIN, B. A.

Effect of low-frequency vibration on the activity of dehydrogenases in neurones of the nucleus vestibularis p 242 A93-35670 anterior of rats

NAVARRO-GONZALEZ, RAFAEL

Computational study of radiation chemical processing in comet nuclei p 109 A93-17982

NAVARRO, CHRISTINE

Absence of a growth hormone effect on rat soleus atrophy during a 4-day spaceflight p 272 A93-40548 NAZAR, K.

Muscle mitochondrial density after exhaustive exercise in dogs - Prolonged restricted activity and retraining

p 242 A93-35498

NAZARE, J.

Civil aviation and cardiology - Admission rules and follow-up of the technical flying personnel of TAP-Air p 164 A93-28699

NAZARENKO, A. I.

Characteristics of the effect of inert gases on in vivo tissue respiration p 112 A93-23152

NAZARENKO, A. YI.

Mechanisms of the antihypoxic effect of taurine p 325 A93-43073

NAZAROV, V. M. Psychophysiological studies of acute hypoxic hypoxia p 91 A93-18417

NEALE, L. S. Alteration in human mononuclear leucocytes following p 165 A93-28705 space flight

NEALSON, KENNETH H.

Planetary Biology and Microbial Ecology: Molecular Ecology and the Global Nitrogen cycle [NASA-CR-4497] p p 269 N93-26157

NEALSON, MOLLY STONE Planetary Biology and Microbial Ecology: Molecular Ecology and the Global Nitrogen cycle

INASA-CR-4497 p 269 N93-26157

NEALY, J. E.

Temporal analysis of the October 1989 proton flare using p 216 A93-32785 computerized anatomical models NEALY, JOHN E.

Radiation exposure predictions for long-duration-stay

Mars missions [AIAA PAPER 92-4584] p 28 A93-13288 Radiation exposure and dose estimates for a

nuclear-powered manned Mars sprint mission p 60 A93-13817 Radiation exposure predictions for short-duration stay

Mars missions | AAS PAPER 92-107 | p 277 A93-39261

NEARY C Oculo-motor responses and virtual image displays

p 319 N93-28862

NEARY, CATHERINE Helmet slippage during visual tracking - The effect of voluntary head movements p 389 A93-49223

NECHAEVA, E. I. Cardiac bioelectric activity in healthy men during a 370-day head-down tilt experiment p 247 A93-35208 NECHEPURENKO, A. E.

Peroxidative oxidation of lipids and chromosome aberrations in mice after repeated exposures to a helium-oxygen respiration mixture under hyperbaric conditions p 243 A93-35672

NEDELEC, G. Immunization of personnel traveling to a destination in p 19 N93-11304 tropical countries: French position

NEDUNGADI. A. Space biology initiative program definition review. Trade study 1: Automation costs versus crew utilization

NEFEDOVA, M.

AUDIMIR - Directional hearing at microgravity p 159 Á93-26570

p 208 N93-23070

Early amphibian (anuran) morphogenesis is sensitive to p 156 A93-28745 novel gravitational fields Altering the position of the first horizontal cleavage furrow of the amphibian (Xenopus) egg reduces embryonic

survival NEIL, L. The application of Hybrid 3 dummy to the impact

assessment of a free-fall lifeboat p 143 N93-19671 NEKHAEV. A. S. Informative value of the rerespiration method for evaluating the functional resources of the cardiorespiratory

system during the simulation of certain flight factors p 248 A93-35222

Efficiency of using iterative hypoxic hypercapnic stimuli for enhancing cardiorespiratory reserves under the effect p 249 A93-35244 of radial accelerations

NEKHOROSHEV, A. S.

Morphological analysis of the hepatic structures in experimental animals after infrasonic exposure

p 240 A93-35240

NELSON, BARBARA J.

Heterogeneity of changes in tymphoproliferative ability with increasing age p 79 A93-20662

NELSON, GREGORY A.

Caenorhabditis elegans - A model system for space p 80 A93-20665 biology studies

NELSON, MARK

p 66 N93-13992 Life systems for a lunar base

NELSON, PHILIP E.

Biomass productivity and sustainability of a bioregenerative life-support system ISAE PAPER 9213591 p 307 A93-41518

NELSON, ROBERT C.

Potential health risks from postulated accidents involving the Pu-238 RTG on the Ulysses solar exploration mission p 43 A93-13774

NELSON, SCOTT A.

Quantitative Helmet Mounted Display system image p 229 A93-30068 quality model

NELSON, WILLIAM R.

Man-machine interface issues for space nuclear power systems p 60 A93-13907

NEMIRE, K.

Visual and somesthetic influences on postural p 224 A93-32782 orientation in the median plane NEMTSEV, I. Z.

Validation of the use of the helium-neon laser in the medical rehabilitation of patients with atrophy

p 248 A93-35228

NENCIONI, L.

Absence of protective immunity against diphtheria in a large proportion of young adults p 18 N93-11302 Studies of safety, infectivity, and immunogenicity of a

new Temperature Sensitive (TS) 51-1 strain of S. typhi as a new live oral typhoid fever vaccine candidate p 19 N93-11306

NERI, D. F.

Effects of dextromethamphetamine on subjective fatique p 119 N93-17822 [AD-A258252]

Subjective fatigue in A-6, F-14, and F/A-18 aircrews during operations Desert Shield and Storm

p 171 N93-20580 IAD-A2592431

Simulated sustained flight operations and performance. Part 1: Effects of fatigue

p 266 N93-25859 IAD-A2610121

NERI, DAVID F.

The effect of combat on the work/rest schedules and fatigue of A-6 and F-14 aviators during Operation Desert Shield/Storm

IAD-A2581461 p 122 N93-18292 The effect of combat on aircrew subjective readiness and LSO grades during Operation Desert Shield/Storm [AD-A258156] p 132 N93-18294

NESLEIN, I. L.

Changes in some lifestyle parametres in Norwegian pilots as students, and after 6 and 12 years of service p 370 N93-32261

NESPOLI, P.

The European astronauts training programme

p 226 N93-24346

NESS, ROBERT O., JR.

Plasma reactor waste management systems p 68 N93-14000

NESS, SUMITRA R.

Plasma reactor waste management systems

p 68 N93-14000

NESSIM, MAHER

A monitoring and control system for complex man-machine systems: Preliminary design

p 70 N93-14951

NESTERENKO, G. O.

The state of the endocrine system of rats of different age under conditions of immobilization stress and biomos p 242 A93-35671 administration

NEUBAUER, J. A.

Modulation of respiratory responses to carotid sinus p 79 A93-20038 nerve stimulation by brain hypoxia

NEUHAUSER, K. S.

Application of RADTRAN to estimation of doses to persons in enclosed spaces p 97 N93-17230

IDE93-0007581 NEVILLE, KELLY J.

Subjective mood and fatigue of C-141 crew during Desert p 370 N93-32264

Digital flight data as a measure of pilot performance associated with fatigue from continuous operations during the Persian Gulf conflict p 371 N93-32268 NEWBOLD, DAVID D.

Operation of breadboard liquid-sorbent/membrane-contactor system for removing carbon dioxide and water vapor from air

|SAE PAPER 921321| p 304 A93-41483 A novel membrane device for the removal of water vapor

and water droplets from air |SAE PAPER 921322| p 304 A93-41484

NEWMAN, DAVA J.

Human locomotion and workload for simulated lunar and p 394 A93-52406 Martian environments

NEWMAN, JAMES

An improved anthropometric test device

NEYLAND, DAVID L

From pilot's associate to satellite controller's p 32 N93-11922 associate

NGUYEN, CHARLES C.

Kinematics and control of a fully parallel force-reflecting hand controller for manipulator teleoperation

p 364 A93-45598 Joint-space Lyapunov-based direct adaptive control of a kinematically redundant telerobot manipulator

NGUYEN, DE

Age, circadian rhythms, and sleep loss in flight crews p 211 A93-30276

NGUYEN, PHUNG A space manipulator with inertially fixed base?

[AIAA PAPER 93-3866] NGUYEN, T

Visual search in virtual environments

p 233 A93-33450

p 143 N93-19670

p 407 A93-53038

p 393 A93-51452

NICE, DAVID A. Development of the Hermes EVA Space Suit Glove [SAE PAPER 921256] p 299 A93-41426

NICKEL, JEFFERY D.

Improved head support stand adjustable by compoundturnbuckle p 55 N93-15249

IAD-D0153841

NICOGOSSIAN, ARNAULD E.

The space life sciences strategy for the 21st century p 1 A93-10636

Meeting human needs [AAS PAPER 91-313] p 400 A93-54306

NASA's manned space flight program [AAS PAPER 91-626] p 402 A93-55805

NIE. G. Y.

The effects of prolonged growth in elevated CO2 concentrations in the field on the amounts of different leaf proteins

DE93-0029401 p 115 N93-19751

NIEBOER, J. J.

Occupant simulation as an aspect of flight safety research p 142 N93-19665

NIELSEN, S. S.

productivity and sustainability of a bioregenerative life-support system p 307 A93-41518

SAE PAPER 921359 NIEWOEHNER, DENNIS E.

Time course of functional repair of the alveolar p 78 A93-20032 epithelium after hyperoxic injury NIKOLAEV, V. P.

A method for the theoretical calculation of the parameters of single-stage decompression with equal probability of safety p 160 A93-26832

NISET, GEORGES

Mechanisms of improved arterial oxygenation after peripheral chemoreceptor stimulation during hypoxic p 331 A93-42188 exercise

NISHI, R. Y.

Statistically based decompression tables. 7: Selection and treatment of primary air and N2O2 data p 172 N93-20587 IAD-A2590901

NISHIMURA, KOUSUKE Image technology and information analysis of bone change with gravitational exposure p 378 A93-49177

Effects of dynamic exercise on cardiovascular regulation during lower body negative pressure p 281 A93-41168

Dramatic reduction of meningococcal meningitis among military recruits in Italy after introduction of specific p 18 N93-11303 vaccination

The screening of inhalant allergic diseases in the selection of candidates for aircraft piloting p 21 N93-11312

NISINI, ROBERTO

p 15 N93-11286 Clinical types of Hepatitis B Clinical and immunological response to vaccination with parenteral or oral vaccines in two groups of 30 recruits p 19 N93-11305

NITTA, K.

Development of the nitrogen fixation system for CELSS

| SAE PAPER 921238 | p 297 A93-41411 CELSS nutrition system utilizing snails

p 394 A93-52411

A trade study method for determining the design parameter of CELSS subsystems | SAE PAPER 921198 | p 295 A93-41374

Concept of waste transferring mechanisms

p 297 A93-41412 ISAE PAPER 9212391

The development of an atmosphere composition monitor for the Environmental Control and Life Support System

p 292 A93-41333

ISAE PAPER 9211491 NIXON, DAVID

Vertical regolith shield wall construction for lunar base p 107 N93-17446 applications

NIXON, GLEN R.

Design of a reusable kinetic energy absorber for an astronaut safety tether to be used during extravehicular activities on the Space Station

p 139 N93-17973 INASA-CR-1920151

NJEMANZE, PHILIP C.

Perfusion of the visual cortex during pressure breathing at different high-G stress profiles p 401 A93-55167

NOBLE, LAWRENCE D., JR. An update on the readiness of vapor compression

distillation for spacecraft wastewater processing [SAE PAPER 921114] p 290 AS p 290 A93-41307

NOEVER, DAVID A. Process for selectively recovering algae and protozoa [NASA-CASE-MFS-26124-1-NPO] p 276 N93-29174

NONEMAN, S. R. Space Station Freedom payload operations in the 21st p 350 A93-45436

NONTASAK, T.

Performance differences in psychomotor and dichotic listening tests among landing craft air cushion vehicle p 177 A93-27174

onerator trainees NOORHOSSEINI, S. M.

Teleprogramming a cooperative space robotic workcell p 190 A93-29109 for Space Station

NORFLEET, WILLIAM T.

Issues on human acceleration tolerance after long-duration space flights p 334 N93-29651

(NASA-TM-104753) NORLANDER, L.

Plasmid encoded virulence of Yersinia p 275 N93-28199 [FOA-B-40419-4.4]

NORO, O. Research and development of sensing and manipulation

techniques for space robotics on a testbed [AIAA PAPER 93-0794] p 136 p 136 A93-24873

NORRELL, JEFFERY L. Conceptual design of a fleet of autonomous regolith throwing devices for radiation shielding of lunar habitats p 108 N93-17806 [NASA-CR-192078] Conceptual design of a fleet of autonomous regolith throwing devices for radiation shielding of lunar habitats [NASA-CR-192030] p 139 N93-18018

NORSK, P.

Gravitational stress and volume regulation p 165 A93-28709 Arterial pulse pressure and vasopressin release in

humans during lower body negative pressure p 360 A93-47096

NORSK. PETER Effect of water immersion on renal natriuretic peptide (urodilatin) excretion in humans p 381 A93-49293 Volume-homeostatic mechanisms in humans during a 12-h posture change n 387 A93-52620 Central cardiovascular pressures during graded water immersion in humans NORSWORTHY, R. p 402 A93-55457

Technology test results from an intelligent, free-flying

robot for crew and equipment retrieval in space p 184 A93-27037 An experiment in vision based autonomous grasping within a reduced gravity environment

p 193 A93-29137

NORTHRUP, V. M. Evaluation and optimization of a flexible filtration system for respiratory protection system 21

IAD-A262467 p 284 N93-28758

NORTON, CYNTHIA F.

Comparison of membrane ATPases from extreme halophiles isolated from ancient salt deposits

p 243 A93-36557

NORTON, R. D. Rett syndrome - Stimulation of endogenous biogenic amines p 164 A93-28697

NORTON, WILLIAM E.

Bar-holding prosthetic limb [NASA-CASE-MFS-28481-1] p 70 N93-14870 NOSAR V YI

Mechanisms of the antihypoxic effect of taurine

p 325 A93-43073

The Inkubator-2 complex for studying the embryonic and postembryonic development of birds in conditions of weightlessness p 241 A93-35242

NOSKÔV. V. B.

Investigation of fluid-electrolyte metabolism and its hormonal regulation during the second joint Soviet-French p 247 A93-35207

An operational evaluation process for long-duration mission habitats in space p 345 A93-42114

NOVIKOV, V. S.

The state of cardiac activity control in humans during cyclic changes of barometric pressure in a hermetic p 251 A93-35257

Immune and physiological mechanisms of hypoxic p 384 A93-51116

Hypobaric hypoxia as a correction and rehabilitation method in aviation medicine p 402 A93-55332

NOVIKOVA F. I.

Peroxidative oxidation of lipids and chromosome aberrations in mice after repeated exposures to a helium-oxygen respiration mixture under hyperbaric conditions p 243 A93-35672

NOVIKOVA, N. D.

Microflora of cabins of manned space objects and the problem of biological damage to the structural materials used in them p 262 A93-35237

NOVOTNY, J.

Process Control Water Quality Monitor for Space Station Freedom - Development update

ISAE PAPER 9212641 p 299 A93-41434

NHOL YNTOYON

Continuous monitoring of effluent iodine levels of Space

Station water using solid state technology [SAE PAPER 921265] p 29 p 299 A93-41435

NOYES, GARY P.

Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978

NOZDRACHEV, A. D. Roentgenophosphene as an indicator of the radiation

excitability of the central nervous system

p 325 A93-43078

NOZHNITSKAIA, T. N.

Engineering and technical support of experiments on board the Cosmos-2044 biosatellite p 77 A93-18419 NTUEN, CELESTINE A.

Modeling human response errors in synthetic flight simulator domain p 141 N93-19464

Modeling the performance of the human (pilot) interaction in a synthetic flight domain: Information p 141 N93-19465 theoretic approach

Recognition of partially occluded threat objects using p 142 N93-19466 the annealed Hopefield network NUMAGUCHI. T.

Development of the nitrogen fixation system for CELSS.

[SAE PAPER 921238]

p 297 A93-41411 NUNNELEY, S. A.

Thermal convergence fails to predict heat tolerance timits p8 A93-10331

NUNNELEY, SARAH A.

Heat stress in protective clothing - Validation of a computer model and the Heat-Humidity Index (HHI)

p 88 A93-18040

Thermal stress in US Air Force operations p 51 N93-14027 (AD-A2557851 Physiological stress from chemical defense clothing and

p 51 N93-14028 [AD-A255786]

NUNOHARA, TATSUYA

equipment

Theoretical and experimental studies for continuous path control of flexible manipulator mounted on a free-flying space robot

1AIAA PAPER 93-38631 p 392 A93-51449

NURITDINOV, E. N.

The role of dermorphin in the regulation of the winter p 38 A93-16748 hibernation processes in mammals NYE, LENDELL G.

Poststrike air traffic control trainees - Biodemographic predictors of success in selection and screening p 56 A93-15664

Some personality and aptitude characteristics of Air p 388 A93-52301 Traffic Control Specialist trainees

NYGREN, THOMAS E.

Cognitive and affective components of mental workload: Understanding the effects of each on human decision p 99 N93-16783 making behavior

0

O'BRIEN, KEVIN M.

Display format and highlight validity effects on search performance using complex visual displays

p 187 A93-27160 O'CONNOR, FRANCES

Cardiovascular responses to lower body negative pressure in trained and untrained older men

p 115 A93-21686 O'HARE, DAVID

The 'artful' decision maker - A framework model for p 56 A93-15662 aeronautical decision making O'I FARY ANN

Satiation or availability? Effects of attention, memory, and imagery on the perception of ambiguous figures p 405 A93-55348

O'LEARY, JARROD D.

Instrumentation for microbial monitoring of decontamination or biocide system effectiveness p 297 A93-41407 |SAE PAPER 921233|

O'NEILL, P. M.

Depth-dose equivalent relationship for cosmic rays at various solar minima p 391 A93-49564

OAKES, DENNIS L. Physiological effects of positive pressure ventilation | AD-A254809 | p 49 N93-12751

OATES, T.

Electroencephalogram epileptiform abnormalities in candidates for aircrew training p 170 A93-28757 OBENHUBER, D. C.

Aquatic biofilms and their responses to disinfection and invading species

p 296 A93-41387 ISAE PAPER 9212111 Optimization of 15 parameters influencing the long-term survival of bacteria in aquatic systems

p 359 N93-32365 INASA-CP-1925711

OBERBECK, VERNE R. Comet impacts and chemical evolution on the

hombarded earth p 109 A93-17980 OBERDORSTER, GUNTER

Potential health effects of fume particles on the crew of spacecrafts |SAE PAPER 921387| p 308 A93-41545

Potential health hazards from thermal degradation events - Particulate vs. gas phase effects

[SAE PAPER 921388] p 282 A93-41546

OBRIEN, EDWARD M.

Investigation into the common mode rejection ratio of the physiological signal conditioner circuit

p 245 N93-26073

OBRIEN, LAWRENCE H.

Development of the Personnel-based System Evaluation Aid (PER-SEVAL) performance shaping functions p 26 N93-11779 IAD-A2528201

OBUKHOVA, M. F.

The role of dermorphin in the regulation of the winter hibernation processes in mammals p 38 A93-16748 ODA, MITSUSHIGE

Space robotics and its man-machine interface p 27 A93-11204

ODINAK, M. M.

neurological Preclinical cardiovascular and occupation-related pathological symptoms in helicopter

ODOR, RONALD K.

How do zooplankton feed? A critical microgravity experiment OELZ, O. p 158 N93-21097

Does drinking protect against mountain sickness? p 382 A93-49565

OELZ. OSWALD

Interactions between Hb, Mg, DPG, ATP, and CI determine the change in Hb-O2 affinity at high altitude p 279 A93-41117

Rated performance, cardiovascular and quantitative EEG parameters during simulated instrument flight under p 165 A93-28708 the effect of terfenadine

OGANOV, V. S. Effect of exercise and bisphosphonate on mineral

balance and bone density during 360 day antiorthosta p 170 A93-28760. hypokinesia

OGIMOTO, K.

Research and development of sensing and manipulation techniques for space robotics on a testbed [AIAA PAPER 93-0794] p 136 p 136 A93-24873

OGISO, SHINYA Telemanipulation experiment using predictive display p 411 A93-56256

OGLE, CHARLES D.

Comparing the Cattell 16PF profiles of male and female p 178 A93-27177 commercial airline pilots

OGREL', O. D.

Ozone - A new aspect of its effect on microorganisms p 398 A93-54971 OHIRA, A.

CELSS nutrition system utilizing snails

p 394 A93-52411

OHIRA, YOSHINOBU

Adaptation of skeletal muscles and physical work capacity in a weightless environment p 38 A93-15527

OHLUND, KENT

Emergence of telerobotic control enhancement from research in machine autonomy p 183 A93-27028

OHMORI, SACHIKO

Modification of water and electrolyte metabolism during head-down tilting by hypoglycemia in men

p 92 A93-20029

OHTSUKA, AKIKO

Research of a free-flying telerobot. IV - Development of dual-arm manipulation system p 411 A93-56254 OKA, YURIKO

Lunar surface experiment system p 316 N93-28034

OKADA, TADASHI Hematological changes in space p 46 A93-15528 environments

OKOS, M. R.

OLDING, BILL

Development of physical and mathematical models for the Porous Ceramic Tube Plant Nutrification System (PCTPNS)

[NASA-TM-107551] n 4 N93-10085

OKUDAIRA, TOSHIAKI

Conceptual study of manned lunar surface site p 316 N93-28031

Test and evaluation report of the Physic Control

p 332 A93-44180

Defibrillator/Monitor, Model LifePak(tm) 6s p 52 N93-14103

OLEA, MICHELE M. Predicting aircrew training psychometric g performance with

AD-A2640211

p 340 N93-30026 OLEINER, V. D.
The effect of low-intensity electromagnetic

millimeter-wave radiation on the rat cardiovascular system

p 2 A93-12861 OLIVADOTI, J. T. Regenerable Microbial Check Valve - Life cycle tests

results [SAE PAPER 921316] p 303 A93-41478

OLIVEIRA, F. B.

Nutritional and lifestyle status of 50 pilots of the p 369 N93-32255

Development of a 500 hPa shoulder joint for the European EVA Space Suit System [SAE PAPER 921257]

p 299 A93-41427 OLSEN, DALE E.

Automatic detection of seizures with applications

p 254 N93-25592 OLSEN, NIELS V.

Effects of acute hypoxia on renal and endocrine function at rest and during graded exercise in hydrated subjects p 93 A93-20035 Renal hemodynamics, tubular function, and response

to low-dose dopamine during acute hypoxia in humans

OLSEN, R. G.
Specific absorption rate and radiofrequency current-to-ground in human models exposed to near-field irradiation p 360 A93-47098

OLSZEWSKA, K. Muscle mitochondrial density after exhaustive exercise in dogs - Prolonged restricted activity and retraining

OMAN, CHARLES M. Space motion sickness monitoring experiment -pacelab 1 p 403 A93-55941

Spacelab 1 ONEAL, MELVIN R.

Armstrong Laboratory space visual function tester program p 284 N93-28739 Effect of microgravity on several visual functions during STS Shuttle missions: Visual Function Tester-Model 1

(VFT-1) p 284 N93-28740 Effect of microgravity on visual contrast threshold during STS Shuttle missions: Visual Function Tester-Model 2

p 284 N93-28741 Effect of microgravity on the visual near point: Visual Function Tester-Model 4 (VFT-4) p 284 N93-28742

ONEIL, M. P.

Primary charge separation in isolated photosystem 2 reaction centers p 82 N93-17189 [DE92-041128]

ONEILL, R. V. Scaling issues for biodiversity protection

p 6 N93-12315 [DE92-016689]

ONES. D. S. Meta-analysis of integrity tests: A critical examination of validity generalization and moderator variables p 27 N93-12225 I AD-A254681 I

B-47

ONKEN, R.
Monitoring of pilot actions as part of a knowledge-based
system for pilot assistance p 59 N93-15184
Pilot intent and error recognition as part of a knowledge
based cockpit assistant p 318 N93-28855
ONO, S.
Endotoxin priming followed by high-altitude causes
pulmonary edema in rats p 323 A93-42186
ONO, Y.
Working hours and fatigue of Japanese flight attendants (FA) p. 171 A93-28762
(FA) p 171 A93-28762 ONODERA, SHO
Influence of viscous resistance on heart rate and oxygen uptake during treadmill walking in water
p 94 A93-20898
ONOZAWA, AKIHIKO
Study of the whole-body response to vibration: The effect
of repeated exposure to the long-term whole-body
vibration. II p 9 A93-11286
OOSTERVELD, W. J.
Barotrauma in Boeing 737 cabin crew
p 278 A93-39706
OOTUKA, AKIKO
Research of a free-flying telerobot. V - Handling a target
with multi-arms p 411 A93-56255
OPITZ, M.
AUDIMIR - Directional hearing at microgravity
p 159 A93-26570
ORASANU, JUDITH
Individual differences in airline captains' personalities,
communication strategies, and crew performance p 177 A93-27175
ORGEL, LESLIE E.
In vitro selection of optimal DNA substrates for T4 RNA
ligase p 329 A93-44939
Unexpected substrate specificity of T4 DNA ligase
revealed by in vitro selection p 397 A93-52878
ORLANDO, ROBERTO
Effects of air bubble contamination in recirculating water
loop
[SAE PAPER 921282] p 302 A93-41450
ORLANSKY, JESSE
The effect of wearing protective chemical warfare
combat clothing on human performance
p 230 A93-30287
The effects of wearing protective chemical warfare combat clothing on human performance
[AD-A250716] p 35 N93-12491
ORNHAGEN, HANS
Reduced voluntary non-visual suppression of the
vestibulo-ocular reflex gain during nitrous oxide narcosis
p 7 A93-10329
ORO, J.
Comets and the formation of biochemical compounds
on the primitive earth - A review p 109 A93-17977
ORO, JOHN
Europa: Prospects for an ocean and exobiological

OSGOOD, ROBERT K.

OSADCHII. O. E. Vagotropic effects of peptides isolated from the brain p 38 A93-16749 of hibernating susliks OSER, RANDALL Increasing hits and reducing misses in CRM/LOS Guidelines for simulator scenario p 286 A93-39575 scenarios development

p 173 N93-22163 peurons OSHIMA, T. Planetary quarantine in the solar system - Survival rates of some terrestrial organisms under simulated space p 378 A93-52408 conditions by proton irradiation OSNABRUEGGE, GABRIELE International application of the DLR test-system: Continuation of the cooperation with Iberia in pilot p 225 N93-24104 JDI R-FB-92-121

The effects of head and sensor movement on flight

Automated system for analyzing the activity of individual

p 185 A93-27131

profiles during simulated dive bombing

OSHAUGHNESSY, DAVID M.

OSSORIO, PETER G. Person-like intelligent systems architectures for robotic shared control and automated operations

p 191 A93-29113 OSTROM, L. T. Crucial role of detailed function, task, timeline, link, and human vulnerability analyses in HRA

p 321 N93-28942 IDF93-0019231 OSTROVSKIJ, D. N. Ozone - A new aspect of its effect on microorganisms p 398 A93-54971

OSTROWSKI, STANISLAW
13 C NMR spectra of allosteric effectors of [AD-A262979] p 284 N93-28293 OTT. E. Influence of microgravity on immune system and genetic information p 160 A93-26572 Influence of microgravity on immune system and genetic

p 220 N93-24370 information **OUELLETTE, FRED A** Design of a Shuttle air and water prefilter for reduced gravity operation

ISAE PAPER 9211611 p 294 A93-41343 OVCHINNIKOV, A. E.

Maximal lung ventilation and forced expiration rate under hyperbaria p 76 A93-18297 OVCHINNIKOV, V. V.

Data bank establishment principles as applied to the problem of physiological norms in space medicine p 249 A93-35234

OVENDEN, C. R. Model-based reasoning applied to cockpit warning systems p 147 N93-19778 OWEN, TOBIAS

p 114 N93-18553

Titan

PACKHAM, NIGEL J. C. An assessment of waste processing/resource recovery technologies for lunar/Mars life applications [SAE PAPER 921271] p 300

p 300 A93-41441 A hybrid regenerative water recovery system for lunar/Mars life support applications p 301 A93-41445 | SAE PAPER 921276 |

PADDAN, GURMAIL S. Transmission of vibration through the human body to the head: A summary of experimental data p 361 N93-32237 HSVR-TR-2181

PADOAN, SERGE Reduced voluntary non-visual suppression of the vestibulo-ocular reflex gain during nitrous oxide narcosis p 7 A93-10329

PAIGE, GARY D. Linear vestibuloocular reflex during motion along axes

between nasooccipital and interaural p 203 A93-32773 PAKHOMOV, A. I.
The Inkubator-2 complex for studying the embryonic and

postembryonic development of birds in conditions of weightlessness p 241 A93-35242 PAKHUNOVA, L. V.

Features of an ethanol effect in operators with different states of skin tissue basophils p 250 A93-35252 PALAZZO, REGINA M.

Time course of functional repair of the alveolar epithelium after hyperoxic injury p 78 A93-20032 p 78 A93-20032 PALERMOS, J.

Correlation of serum alpha sub 1 antitrypsin with cigarette smoking and pulmonary function status in Greek pilots, for a ten year period p 22 N93-11318 Lipidemic profile of Hellenic Airforce officers p 362 N93-32250

Correlation of life-style and dietary concomitants of Greek pilots with serum analytes p 369 N93-32256 PALOSKI, W. H.

Vestibular ataxia following shuttle flights - Effects of microgravity on otolith-mediated sensorimotor control of p 169 A93-28750 nostura PANASENKO, N. A.

Validation of the use of the helium-neon laser in the medical rehabilitation of patients with atrophy p 248 A93-35228

PANFEROVA, N. E. The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 PANG, CHENG

Skin temperature and heat flow of head-neck region under different ambient temperatures p 46 A93-16074 PANNIER, B. M.

Microgravity and orthostatic intolerance - Carotid hemodynamics and peripheral responses p 278 A93-39716

PANOV, A. A. Changes in the osmolality, monovalent cation concentration, and protein structure of blood plasma under

p 200 A93-31188 extreme conditions Allergic and nonallergic rhinitis in Greek pilots p 21 N93-11317

PARADISO, MICHAEL A. Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 p 224 N93-23960

Theory of synaptic plasticity in visual cortex p 219 N93-24238 IAD-A2603221 PARASURAMAN, RAJA

Performance consequences of automation-induced p 286 A93-39571 'complacency'

Adaptive automation and human performance, 3: Effects of practice on the benefits and costs of automation shifts

LAD-A2543811 n 64 N93-12860

PARAZYNSKI, S. E. Direct measurement of capillary blood pressure in the human lip p 279 A93-40550

PARFITT, ALAN Training analysis for the European Fighter Aircraft - 'A p 98 A93-18769 voyage into the unknown' PARHAM, KENNETH R.

Anthropometry of the foot and lower leg of U.S. Army soldiers: Fort Jackson, SC IAD-A261405 p 268 N93-26404

A simple hindlimb suspension apparatus p 398 A93-55168

PARK, EUI H. Recognition of partially occluded threat objects using the annealed Hopefield network p 142 N93-19466

p 142 N93-19466 World model and its uncertainty in supervisory robot

p 183 A93-27027 control PARKER, DICK

Distribution of human waste samples in relation to sizing p 68 N93-14001 waste processing in space PARKER, DONALD E.

Human vestibular function and weightlessness

p 84 A93-17531 Mental rotation - A key to mitigation of motion sickness in the virtual environments? p 387 A93-49404 Adaptation to the simulated stimulus rearrangement of p 403 A93-55942

PARKER E C decompression tables 8: based Statistically Linear-exponential kinetics

p 120 N93-17926 IAD-A2576131 PARKER, KATHERINE L. Adaptation to the simulated stimulus rearrangement of

p 403 A93-55942 weightlessness PARKINSON, M. D.

Viral hepatitis in the US Air Force, 1980 - 1989 p 15 N93-11287 PARRISH, CLYDE F.

Lightweight passive microclimate cooling device [AD-A262262] p 317 N93p 317 N93-28112

PARRISH, J. A.

Center of Excellence in laser medicine p 22 N93-11445 IDE92-018760) PARRISH, RUSSELL V.

Benefits, limitations, and guidelines for application of stereo 3-D display technology to the cockpit p 350 A93-44895 environment Depth-viewing-volume increase by collimation of stereo p 407 A93-52915

In-simulator assessment of trade-offs arising from mixture of color cuing and monocular, binoptic, and stereopsis cuing information p 407 A93-52916 PARULESKI, KERRY L.

Lunar base requirements for human habitability p 345 A93-41995 Pay permanent Martian base: Space architecture for the

first human habitation on Mars, volume 5 p 140 N93-18156 [NASA-CR-192042]

PARUS, R. Otolithic illusions on takeoff and visual information:

Reflections in connection with an air accident case p 134 N93-19681

PASHCHENKO, P. S. Structural and cytochemical signs of the development

deadaptation, as determined from characteristics n 252 A93-36724

PASHLER, HAROLD Doing two things at the same time

p 180 A93-27817 PASSERI, DANIEL R.

Immunoconjugates: Magic bullets for cancer therapy? p 253 N93-25567

PASSINI, CHERYL A. Response of a mouse hybridoma cell line to heat shock, agitation, and sparging p 328 A93-44928 Intracellular proteins produced by mammalian cells in

response to environmental stress G-load effects and efficient acoustic parameters for

p 146 N93-19775 robust speaker recognition PASTOR, M.

European involvement in CELSS - Definition of a Closed Ecological Systems Test Bed [SAE PAPER 921200] p 295 A93-41376

PATAT, F.

Cardiovascular response to lower body negative pressure before, during, and after ten days head-down p 162 A93-28681 tilt bedrest

PERSONAL AUTHOR INDEX PICKWORTH, W.

PATEL. SAUMIL PEQUIGNOT, J. PETERSON, L. E. Longitudinal study of astronaut health - Mortality in the Acute hemodynamic response to weightlessness during Differential effects of long-term hypoxia on parabolic flight p 86 A93-17547 norepinephrine turnover in brain stem cell groups p 216 A93-32783 vears 1959-1991 PATERSON, DAVID J. p 78 A93-20030 PETERSON STEVEN W. The effects of chronic hypoxia on human auditory system PEQUIGNOT, J. M.
Differential effects of long-term A feasibility study of hand kinematics for EVA analysis sensitivity p 89 A93-18041 hypoxia on using magnetic resonance imaging norepinephrine turnover in brain stem cell groups p 298 A93-41423 PATTEN. B. M. ISAE PAPER 9212531 n 78 A93-20030 Neurology of microgravity and space travel Power assist EVA glove development PEQUIGNOT, JEAN-MARC | SAE PAPER 921255| p 299 A93-41425 p 168 A93-28735 Norepinephrine content in discrete brain areas and PATTERSON, J. **EVA Glove Research Team** neurohypophysial vasopressin in rats after a 9-d spaceflight Results of a structured psychiatric interview to evaluate [NASA-CR-193014] p 313 N93-27847 (SLS-1) p 273 A93-41167 NASA astronaut candidates p 223 . A93-32780 A feasibility study of hand kinematics for EVA analysis PATTERSON, ROBERT using magnetic resonance imaging p 313 N93-27848 Absence of protective immunity against diphtheria in a Factors that affect depth perception in stereoscopic A preliminary structural analysis of space-based inflatable tubular frame structures p 313 N93-27849 large proportion of young adults n 18 N93-11302 displays p 230 A93-30455 Human stereopsis p 223 A93-30456 Power assist EVA glove development Gravity and root morphogenesis p 210 N93-24403 PERBET, J.-N. p 314 N93-27850 PAHI R Visual search in virtual environments Multimodal dialog system for future cockpits p 233 A93-33450 p 146 N93-19773 The influence of individual sensivity to stress on the behavior (attitude and performance) of avoidance of an PEREPECH. B. L. A literature survey for virtual environments - Military flight p 134 N93-19705 Engineering and technical support of experiments on simulator visual systems and simulator sickness board the Cosmos-2044 biosatellite p 77 A93-18419 p 387 A93-49406 The Inkubator-2 complex for studying the embryonic and The screening of inhalant allergic diseases in the PAVLOVICH, N. V. postembryonic development of birds in conditions of selection of candidates for aircraft piloting p 241 A93-35242 p 21 N93-11312 Characterization and classification of strains of weinhtlessness Francisella tularensis isolated in the central Asian focus PEREVERZEV, V. A. PETRIE. GLENN E. of the Soviet Union and in Japan The role of serotonin and histamine in increasing the Immobilized cell bioreactors for water reclamation Process stability and effect of reactor design [FOA-B-40421-4.4] p 275 N93-28200 resistance of the organism to certain extreme conditions PAWLIK, EUGENE A., SR. p 324 A93-43034 p 301 A93-41446 |SAE PAPER 921277| PEREZ, MANUEL A. Development of measures of crew coordination [AD-A255384] Direct manipulation and intermittent automation in p 70 N93-14651 Cryoprotective properties of water in the earth PAXINOS, ODYSSEAS advanced cockpits cryolithosphere and its role in exobiology IAD-A2538141 p 32 N93-11784 Aircraft accident injuries in the Hellenic Air Force in the p 269 A93-36558 last 20 years PAXTON, T. A. p 126 N93-19698 PEREZ. WILLIAM A. PETTENSKI, T. A. Predicting radiation induced performance decrements Evaluation of multilayer mask concept for RESPO 21 of AH-1 helicopter crews. Volume 2: Evaluation of modeling An on-line water quality monitor for Space Station p 33 N93-12079 [AD-A253392] p 364 A93-46801 Freedom and simulation techniques for predicting radiation induced PEYRIN, L. performance decrements PEARSON, JACKIE Differential effects of long-term hypoxia on Effects of microclimate cooling on physiology and p 351 N93-29484 LAD-A2628721 norepinephrine turnover in brain stem cell groups p 78 A93-20030 PERKINS, LEIGH ANN performance while flying the UH-60 helicopter simulator in NBC conditions in a controlled heat environment Finite element analysis of a composite artificial ankle PEZESHKPOUR, G. H. p 174 N93-22189 [AD-A258502] p 129 N93-20400 An assessment of peripheral nerve damage in the rat PEARSON, JACQUELYN Y. PERLOT, SUSAN The role of Environmental Health System air quality following non-freezing cold exposure: An electrophysiological and histopathological examination Effects of terfenadine and diphenhydramine on brain activity and performance in a UH-60 flight simulator monitors in Space Station Contingency Operations p 331 N93-30818 [SAE PAPER 921414] p 310 A93-41565 IAD-A2642931 p 119 N93-17817 [AD-A258012] The use of electrophysiological and cognitive variables PEROV, S. N. PFAFF, MARK S. in the assessment of degradation during periods of Validation of the use of the helium-neon laser in the Army cockpit delethalization program p 61 A93-15419 medical rehabilitation of patients with atrophy sustained wakefulness p 248 A93-35228 [AD-A263033] p 283 N93-27923 PFEIFER, ROBERT PEROVA, L. A. The effects of cockpit heat on aviator sleep arameters p 371 N93-32266 Lunar habitats - Places for people Equivalent dose of cosmic rays at representative points p 344 A93-41991 parameters PEARSON, LILLIAN of human-body models PERRONE, JOHN A. p 248 A93-35223 Design of a vibration isolation system for a cycle ergometer to be used onboard the Space Shuttle Things that go bump in the light - On the optical Model for the computation of self-motion in biological specification of contact severity p 256 A93-35099 p 138 N93-17970 (NASA-CR-192021) systems p 97 A93-17673 PHILLIPS, BRIAN PERRY, CHRIS E. PEARSON, NORMAN Preliminary design of a radiator shading device for a The effect of variable seat back angles on human Effects of simulated high altitude exposure on lunar outpost long-latency event-related brain potentials response to +Gz impact accelerations INASA-CR-192016 I p 139 N93-18019 PHILLIPS, NORMAN performance p 117 A93-24042 PERRY, J. L. PEARSON, S. M. Study design for microgravity human physiology Scaling issues for biodiversity protection [DE92-016689] Computerized atmospheric trace contaminant control evnerimente p 118 A93 25208 p 6 N93-12315 simulation for manned spacecraft PHILLIPS, ROBERT W. p 321 N93-28977 INASA-TM-1084091 PEDERSEN, B. K. Effects of spaceflight on the proliferation of jejunal PERRY, M. R. Influence of in vivo hypobaric hypoxia on function of mucosal cells lymphocytes, neutrocytes, natural killer cells, and cytokines p 280 A93-41123 Evaluation of test methods and requirements for [NASA-CR-191303] p 51 N93-13449 respiratory protection systems 21 PHILPOTT, D. [AD-A262466] p 317 N93-28757 PEI. JING-SHEN Muscle mitochondrial density after exhaustive exercise PERSTERER, A Influence of space-flight factors on growth of spirulina in dogs - Prolonged restricted activity and retraining AUDIMIR - Directional hearing at microgravity p 199 A93-30441 p 242 A93-35498 p 159 Á93-26570 PEI, JINGSHEN PHILPOTT, DELBERT E. PESTOV. I. C. Response characteristics of semicircular canal in cats Effects of spaceflight on the spermatogonial population Physiological experiments within the project AustroMir p 3 A93-13536 p 329 A93-44935 under linear acceleration of rat seminiferous epithelium p 219 N93-24354 PELL, J. PHINNEY, D. PETERKA, ROBERT J. Technology test results from an intelligent, free-flying Manned Space-Laboratories Control Centre (MSCC) p 339 A93-43330 Relation between perception of vertical axis rotation and robot for crew and equipment retrieval in space training vestibulo-ocular reflex symmetry PELLIGRA, R. p 214 A93-32176 p 184 A93-27037 Response characteristics of the human torsional Rett syndrome - Stimulation of endogenous biogenic PHIPPS, BARRY M. vestibuloocular reflex p 215 A93-32774 amines p 164 A93-28697 Structure of a molecular chaperone from a thermophilic Role of orientation reference selection in motion PENALOZA, R. p 151 A93-25821 archaebacterium Effects of chronic hypoxia and exercise on plasma PIANTANIDA, THOMAS P. sickness p 124 N93-18596 erythropoietin in high-altitude residents Studies of the field-of-view resolution tradeoff in p 331 A93-42191 Torsional vestibulo-ocular reflex measurements for virtual-reality systems p 232 A93-33443 identifying otolith asymmetries possibly related to space motion sickness susceptibility PENG, C.-K. PICHAN, G. Long-range anticorrelations and non-Gaussian behavior of the heartbeat p 161 A93-28049 Changes in body fluid compartments durina NASA-CR-193304] p 363 N93-32364 p 161 A93-28049 hypohydration and rehydration in heat-acclimated tropical PETERS, DANIEL R. p 251 A93-35496

The pigmentary dispersion disorder in USAF aviators

Predicting radiation induced performance decrements

of AH-1 helicopter crews. Volume 2: Evaluation of modeling

and simulation techniques for predicting radiation induced

PETERS, JOSEPH I.

AD-A2628721

performance decrements

p 87 A93-18033

p 351 N93-29484

PICHKUROV, A. M.

[AD-A254840]

Human biorhythms following interregional travel (with

PICKWORTH, W.
The OMPAT level 1 Neurophysiological Performance
Assessment Battery: NPPAB

reference to Novosibirsk-Vladivostok flights)

PENNEY, DAVID G.

PEPPER, L. J.

PENNINGTON, JACK E.

years 1959-1991

Heart and lung alterations in neonatal rats exposed to CO or high altitude p 77 A93-20027

Teleoperation to robotics at Langley Research Center

Longitudinal study of astronaut health - Mortality in the

p 101 A93-18569

p 216 A93-32783

p 247 A93-35214

p 27 N93-12432

PIENTOK, COLETTE PERSONAL AUTHOR INDEX

PIENTOK, COLETTE

Regional changes in muscle mass following 17 weeks p 93 A93-20039

PIERSON REVERLY K

Chloroflexus aurantiacus and ultraviolet radiation -Implications for Archean shallow-water stromatolites p 400 A93-55999

PIERSON, D. L.

A microfermentation test for the rapid identification of veasts p 156 A93-28733 Human performance and physiological function during a 24-hr exposure to 1 percent bromotrifluoromethane (Halon 1301) p 277 A93-39704

Toxicokinetics of inhaled bromotrifluoromethane (Halon 1301) in human subjects p 278 A93-39705

PIERSON, DUANE L.

Microbiology operations and facilities aboard restructured Space Station Freedom [SAE PAPER 921213] p 296 A93-41389

Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility |SAE PAPER 921214| p 273 A93-41390

Altered immunological response in mice subjected to stress and exposed to fungal spores

| SAE PAPER 921215 | p 274 A93-41391 Biofilm formation and control in a simulated spacecraft water system - Three year results

| SAE PAPER 921310 | p 303 A93-41472 p 81 N93-16804 Infectious disease Kinetic tetrazolium microtiter assay

NASA-CASE-MSC-21979-11 p 82 N93-17049 PLIPERS F W.

Overview of cockpit technology research and development programs for improvement of the man/machine interface: Review of the AGARD AVP Symposium held in Madrid, May 1992

p 320 N93-28872

PILMANIS, ANDREW A.

The Proceedings of the Hypobaric Decompression Sickness Workshop p 123 N93-18362

IAD-A2576121 PINEDA, JAIME A

Extrathalmic modulation of cortical function

p 53 N93-14782 IAD-A2554401 PINKNEY, H. F. L. p 395 A93-52641 Machine vision in space

PINTER, ELENA

Silent HIV infection p 16 N93-11293 PITTMAN, M. E.

A new instrumentation system for measuring the dynamic response of the human head/neck during impact p 143 N93-19672 acceleration

PIZARRO, DAVID

Overconfidence, preview, and probability in strategic p 179 A93-27195 planning

PLAGHKÍ, LEON

Development of the Hermes EVA Space Suit Glove [SAE PAPER 921256] p 299 A93-41426 PLANQUE S

Contribution of the analysis of ocular activity (complementary to the electroencephalographic analysis) to the detection of low vigilance in instances of piloting p 127 N93-19708 a vehicle

PLAZEN, GENEVIEVE

Effects of acute hypoxia on renal and endocrine function at rest and during graded exercise in hydrated subjects p 93 A93-20035

PLEY, URSULA

Life in hot springs and hydrothermal vents

p 243 A93-36559

CREWCUT - A new tool for predicting human performance in conceptual systems p 178 A93-27179 PLOURDE, J. V.

Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard

experiment) p 70 N93-14554 (AD-A2555251

Evaluation of Night Vision Goggles (NVG) for maritime search and rescue

[AD-A257704] p 107 N93-17697

POCHKHUA, M. A.

Some indices of humoral immunity in Rhesus monkeys under the effect of extreme space flight factors

p 241 A93-35258

Absence of protective immunity against diphtheria in a p 18 N93-11302 large proportion of young adults

POGODIN, M. A.

Maximal lung ventilation and forced expiration rate under hyperharia p 76 A93-18297

POHOSKA, F.

Muscle mitochondrial density after exhaustive exercise in dogs - Prolonged restricted activity and retraining p 242 A93-35498 POKROVSKII, V. M.

Vagotropic effects of peptides isolated from the brain of hibernating susliks p 38 A93-16749

POLIAKOV, V. V.

Investigation of fluid-electrolyte metabolism and its hormonal regulation during the second joint Soviet-French space mission p 247 A93-35207

Functional state of the cardiovascular system of the cosmonauts of the sixth primary mission on the Mir station o 249 A93-35238

POLIAKOVA, A. P.

Functional state of the cardiovascular system of the cosmonauts of the sixth primary mission on the Mir n 249 A93-35238

POLINER JEFF

Methodology issues concerning the accuracy of kinematic data collection and analysis using the ariel performance analysis system

INASA-CR-1856891 POLINER, JEFFREY

Evaluation of lens distortion errors in video-based motion analysis

p 34 N93-12211

[NASA-TP-3266] p 258 N93-25736

POLLACK, JAMES B.

Giant planets: Clues on current and past organic chemistry in the outer solar system p 113 N93-18551 POLLAK, CHARLES P.

The effects of an antijet lag diet p 370 N93-32263

Main medical results of extended flights on Space Station Mir in 1986-1990 p 386 A93-52401

POMEKHINA, I. L.

electromagnetic The effect of low-intensity millimeter-wave radiation on the rat cardiovascular

PONG, YING

Effects of acute hypoxia on intracranial dynamics in p 326 A93-44177 unanesthetized goats
PONNAMPERUMA, CYRIL

A lunar-based chemical analysis laboratory

p 39 A93-17426 HSBN 0-937194-25-51 Recommended radiobiological studies for Lunar-Based Chemical/Biological/Medical Analysis p 39 A93-17429 Laboratory (LBCAL) Computational study of radiation chemical processing et nuclei p 109 A93-17982

PONOMARENKO, K. V.

The problem of the pilot's professional reliability

p 410 A93-55334

PONOMARENKO, V. A.

Psychophysiological principles of flight training for actions in nonroutine situations p 256 A93-35233 Control of the development of occupationally important qualities with the aim of improving flight-personnel training p 257 A93-35249 training

Occupational health problems in aviation medicine p 252 A93-36743 Computerized teaching of pilots to spatial orientation

p 404 A93-52694

PONOMAREVA I I

Functional state of the central nervous system of guinea pigs after a prolonged stay in artificial atmospheres different das compositions p 75 A93-18287

Electronystagmography and audio potentials in space flight p 9 A93-11675

POORMAN, TOM

Continuous monitoring of effluent iodine levels of Space Station water using solid state technology p 299 A93-41435 ISAE PAPER 9212651

POPE, ALAN T.

Identification of hazardous awareness states in

monitoring environments [SAE PAPER 921136] p 287 A93-41324 Method of encouraging attention by correlating video

game difficulty with attention level [NASA-CASE-LAR-15022-1] p 288 N93-28128

POPE, J. C. D.

Oculo-motor responses and virtual image displays p 319 N93-28862

POPOV. I. G.

Some features characterizing the supply of astronauts with vitamins C, B1, B2, and B6 during nourishment from canned-food rations on long-term space flights p 249 A93-35231

POPOV. K. E.

Illusions of visual-target motion caused by electrical vestibular stimuli p 119 A93-25653

POPOV, V. V.

The Inkubator-2 complex for studying the embryonic and postembryonic development of birds in conditions o p 241 A93-35242 veiahtlessness POPOVA, I. A.

Metabolism in cosmonauts - Results of biochemical blood analyses for crew members of seven primary p 250 A93-35254 missions on the Mir orbital station

POPPER, STEPHEN E.

Individual differences and subgroups within populations p 136 A93-24050 The shopping bag approach

POPYACK, LEONARD J.

Time stress measurement devices for enhancement of p 144 N93-19762 onboard bit performance

Effects of sleep deprivation on the cognitive capacities of visuo-spatial representation and orientation

p 129 A93-21870

PORTH, CAROL J. M.

Posture and the circulation - The age effect

p 93 A93-20653

POTEAT, JERE

Development of membrane gas removal technology for microgravity liquid flow systems

ISAE PAPER 9211621 p 294 A93-41344

POULTER, N.

Hypertension and the probability of an incapacitating event over a defined period - Impact of treatment

p 215 A93-32777

POURCELOT, LEANDRE

Biomedical engineering and space

p 103 A93-20015

POVILAITITE, P. E.

Electrophysiological and ultrastructural aspects of the effect of high-pressure oxygen on the sensomotor cortex p 77 • A93-18300

POWELL FRANK L.

Effect of chronic hypoxia on hypoxic ventilatory response p 323 A93-42187

POWELL, JAMES R.

A computer model to determine the primary contributors to relative radiation dose received by astronauts

p 43 A93-13935

p 46 A93-16153

POWELL, MICHAEL R. Time to detection of circulating microbubbles as a risk factor for symptoms of altitude decompression sickness

POWERS, JANET V.

Clinostats and centrifuges: Their use, value, and limitations in gravitational biological research; Symposium, Washington, Oct. 19, 1991, Report p 375 A93-49206 Publications of the Space Physiology and Countermeasures Program, Neuroscience Discipline: 1980-1990

INASA-CR-44761 p 55 N93-15583 Publications of the Space Physiology Countermeasures Program, Cardiopulmonary Discipline:

1980-1990 INASA-CR-44751 p 123 N93-18376

POWERS, JEFFREY

CREWCUT - A new tool for predicting human performance in conceptual systems p 178 A93-27179

Toxicological investigations of flight accidetns: Findings p 126 N93-19695 and methods

Gravity as a factor in the orientation and vertical p 158 N93-21098 migration of marine zooplankton PRAŠAD, A. S. K.

Lower body negative pressure system for simulation of p 119 A93-25210 Gz-induced physiological strain PRAVDIVTSEV. V. A. Spontaneous and evoked activity of neurons in the

ats during motion p 239 A93-35211 parietal associative cortex of cats . sickness PREISS, H.

Recent regenerative ECLSS technology developments in Europe

ISAE PAPER 9213321

PREVIC. FRED H. Visual scene effects on the somatogravic illusion

p 88 A93-18035

p 304 A93-41493

p 366 N93-32006

PREVOST, MICHAEL

Human visual performance model for crewstation p 182 A93-26887 Visualization and modeling of factors influencing visibility

in computer-aided crewstation design [SAE PAPER 921135] p 292 A93-41323

PRICE, CHARLES R.

Future needs for space robots for SEI

p 182 A93-27002 PRICE, D. L.

Relative resistance of biofilms and planktonic cells of common molds and yeasts to antimicrobials p 273 A93-41388 ISAE PAPER 9212121

PRICE, SCOTT A.

Abridged procedural guide to aircrew anthropometric accommodation assessment

[AD-A265220] PRIEBE, WALDEMAR

13 C NMR spectra of allosteric effectors of hemoglobin [AD-A262979] p 284 N93-28293

PRIEZ. ALAIN

The influence of individual sensivity to stress on the behavior (attitude and performance) of avoidance of an p 134 N93-19705 accident

PRINCE, CAROLYN

Increasing hits and reducing misses in CRM/LOS Guidelines for simulator scenario p 286 A93-39575 development

PRINCE, J. C.

The active-matrix LC head-down display (AM-LCD): Operational experience and growth potential

p 148 N93-19782

PRINCE, R. P.

Engineering verification of the biomass production p 67 N93-13996

PRINGLE, HEATHER L.

Dual-task training strategies and aging

IAD-A2582611 p 131 N93-18027

PRISK. G. K.

Pulmonary diffusing capacity, capillary blood volume, and cardiac output during sustained microgravity

p 386 A93-52617

PROFFITT, D. R.

Influence of animation on dynamical judgments p 180 A93-28692

PROFFITT, DENNIS R.

Using the stereokinetic effect to convey depth -Computationally efficient depth-from-motion displays p 102 A93-19987

Influence of animation on dynamical judgments

p 98 A93-20275

PRONYCH, SCOTT

Studying the effects of microgravity on lower vertebrate development and behavior p 158 N93-21099 PROST, MICHEL

Free radical attack - Biological test for human resistance capability p 39 A93-17434

PROTASOV, K. T.

Analysis of individual differences between psychological reactions of humans under combined hypoxic stress p 388 A93-51115

PRUDCHENKO, I. A.

Changes in the intensity of free-radical reactions in the organs of rats under hypokinetic stress, protected by the delta-sleep-inducing peptide and its tyrosine-containing p 378 A93-51101 analogue

PRUSACZYK, W. K.

Muscle glycogen, fiber type, aerobic fitness, and anaerobic capacity of West Coast US Navy Sea-Air-Land personnel (SEALs)

IAD-A2583641

p 121 N93-18209 Combined strength and endurance training: Functional and morphological adaptations to ten weeks of training IAD-A2610591 p 267 N93-26229

PRUTCHI, DAVID

New technologies for in-flight pasteless bioelectrodes p 289 A93-41174

PULLEN, JOHN L.

The Servicing Aid Tool p 192 A93-29116

Studies of safety, infectivity, and immunogenicity of a new Temperature Sensitive (TS) 51-1 strain of S. typhi

as a new live oral typhoid fever vaccine candidate p 19 N93-11306

PURVIS, BRADLEY D.

An evaluation of B-1B pilot performance during simulated instrument approaches with and without status

IAD-A2638741 p 353 N93-29888 PUTCHA, LAKSHMI

Pharmacokinetics and Pharmacodynamics in Space [NASA-CP-10048] p 333 N93-29502 p 333 N93-29502 UTILOV. A. A.

Human biorhythms following interregional travel (with reference to Novosibirsk-Vladivostok flights)

p 247 A93-35214 PUTZ, P.

EMATS, a robot-based Equipment Manipulation and Transportation System for the Columbus Free Flying p 231 A93-31522 Laboratory

PUTZKA. A. Mir 1992 operations and crew training

p 226 N93-24352

PYLE, ANNA M.

Ribozymes - A distinct class of metalloenzymes

p 398 A93-54163

PYLE, BARRY H.

Microbiological concerns and methodological approaches related to bacterial water quality in spaceflight

SAE PAPER 9212321 p 297 A93-41406

PYYKKO, ILMARI

Postural stabilization on a moving platform oscillating p 252 A93-35497 at high frequencies

Q

QI, ZHANGNIAN

Radiation dose measurement and biostack experiment in biocabin on board satellite p 327 A93-44845 QIAN, JINKANG

Protective effects of Rhodiola crenutata on rats under antiorthostatic position and professional athletes

QIAN, YAORONG

Kinetics of peptide hydrolysis and amino acid decomposition at high temperature p 411 A93-53289

Effect of heat acclimatization on cAMP level in plasma. cerebrospinal fluid and preoptic area-hypothalamus in hyperthermal rabbits p 199 A93-30437 QUALLS, GARRY D.

Radiation exposure and dose estimates for a nuclear-powered manned Mars sprint mission

QUATTLEBAUM, MARTIN

Test and evaluation report of the Physio Control Defibrillator/Monitor, Model LifePak(tm) 6s

p 52 N93-14103

QUIGLEY, MARK D. Validation of two temperature pill telemetry systems in

humans during moderate and strenuous exercise AD-A259068 p 124 N93-19072

QUINTELA. A. Effects of chronic hypoxia and exercise on plasma

erythropoietin in high-altitude residents

p 331 A93-42191

p 327 A93-44843

p 60 A93-13817

RABIN, JEFF

Spatial contrast sensitivity through aviator's night vision p 393 A93-52300 imaging system

RABIN, JEFF C. Human visual limitations on suprathreshold contrast perception through ANVIS

[AD-A259970] p 226 N93-24431

RÁBIN. R.

Effects of spaceflight on the musculoskeletal system NIH and NASA future directions p 383 A93-49568 RABIN, ROBERT

NASA Specialized Center for Research and Training (NSCORT) in space environmental health

SAE PAPER 921358] p 307 A93-41517

RABINOWITZ, WILLIAM M. Programmable interactive system for cochlear implant electrode stimulation

p 333 N93-29421 [AD-A262558]

RACCA, EDDY L.

C.R.M. training for the advanced flight deck p 24 A93-13410

RAD, ADRIAN L.

Safety issues of manipulator systems under computer p 192 A93-29121 control

RADIEVSKIJ, A. E.

Distribution of functions in a man-machine control system of a certain type p 364 A93-45687

RADOMSKI, M. W.

Effects of sleep deprivation and exercise on glucose p 281 A93-41165 tolerance

RAEDER, ERNST A.

Increased release of brain serotonin reduces vulnerability to ventricular fibrillation in the cat

RAFFNER. E.

An operational evaluation process for long-duration p 345 A93-42114 mission habitats in space

RAFOLT, D.

Monitoring of cardiovascular parameters during the p 220 N93-24367 AustroMir space flight

RAHMAN, HASAN H.

MAC to VAX connectivity: Heartrate spectral analysis p 254 N93-25594 system

Performance under dichoptic versus binocular viewing conditions - Effects of attention and task requirements p 287. A93-40772

RAJAGOPAL, K. R.

Hemodynamic effects of altitude exposure and oxygen administration in chronic obstructive pulmonary disease p 383 A93-49571

RAJULU, SUDHAKAR

Methodology issues concerning the accuracy of kinematic data collection and analysis using the ariel performance analysis system NASA-CR-185689 I p 34 N93-12211

RAJULU, SUDHAKAR L.

An improved simulation based biomechanical model to p 160 A93-27172 estimate static muscle loadings

A comparison of two Shuttle launch and entry suits -Reach envelope, isokinetic strength, and treadmill tests ISAE PAPER 921154 | p 293 A93-41337

A study to explore locomotion patterns in partial gravity environments

p 293 A93-41340 ISAE PAPER 9211571

A comparison of hand grasp breakaway strengths and bare-handed grip strengths of the astronauts, SML 3 test subjects, and the subjects from the general population p 96 N93-16619 | NASA-TP-3286 |

Evaluation of hole sizes in structures requiring EVA services as a means to prevent gloved-hand finger entrapment

p 234 N93-23129 [NASA-TM-104767] Anthropometric survey of the astronaut applicants and

astronauts from 1985 to 1991 [NASA-RP-1304] p 321 N93-29324

RAKHMANOV, A. S.

Effect of exercise and bisphosphonate on mineral balance and bone density during 360 day antiorthostatic hypokinesia

RAM, K. S.

Designs and development of a master-slave eleoperated robot p 390 A93-49357 teleoperated robot

RAMACHANDRAN, G.

Alteration of structure and mobility of erythrocyte aggregates under normal- to microgravity conditions p 200 A93-32072

RAMACHANDRAN, V. S.

Neural basis of motion perception

p 260 N93-26349 [AD-A261452]

RAMAMURTHY, MAYA
Architecture of autonomous systems [NASA-CR-192974] p 266 N93-26047

RAMDI, H.

Implementation of biological elements in life support systems - Rationale and development milestones

p 390 A93-49302

p 183 A93-27024

Body fluid compartments, renal blood flow, and

hormones at 6,000 m in normal subjects p 281 A93-41125

RAMEY, MADISON Initial experiments on the end-point control of a 2-DOF

long-reach elastic manipulator RAMIREZ, GERMAN

Effects of hypoxemia at sea level and high altitude on sodium excretion and hormonal levels p 8 A93-10332

RAMIREZ, T. L. Evaluation of test methods and requirements for

respiratory protection systems 21 g 317 N93-28757 IAD-A2624661

RAMIREZ, W. F.

Space habitat contaminant growth models. II p 345 A93-42094

RANDALL, CHARLIE Mission and Safety Critical (MASC): An EVACS

simulation with nested transactions [NASA-CR-192295] p 149 N93-20314

RANDOLPH, W. Study of SCN neurochemistry using in vivo microdialysis

in the conscious brain: Correlation with circadian activity rhythms [AD-A259803] p 217 N93-23459

RANGARAJAN, N.

Microcomputer based software for biodynamic p 196 N93-22191 simulation

RAO, SUDHAKAR K.

impulsive vibration

Body fluid compartments, renal blood flow, and hormones at 6,000 m in normal subjects

p 281 A93-41125 RAPHEL, C.

Effects of sleep deprivation on the cognitive capacities of visuo-spatial representation and orientation p 129 A93-21870

RAPMUND, GARRISON

Minimal hypoxic pulmonary hypertension in normal Tibetans at 3,658 m p 280 A93-41121

Absence of protective immunity against diphtheria in a p 18 N93-11302 large proportion of young adults

RASH, CLARENCE E.

Visual illusions and other effects with night vision evices p 230 A93-30072 devices

RASMUSSEN, O. S.

The USO-concept applied to a biological model experiment p 210 N93-24379

RASMUSSEN, P. G. A new test of scanning and monitoring ability: Methods and initial results

AD-A2491231 p 24 N93-10321 RASMUSSEN, PER Comparison between VDV and a(rms) using simulated

B-51

p 91 A93-19991

RASMUSSEN, STEEN PERSONAL AUTHOR INDEX

Lunar base requirements for human habitability

first human habitation on Mars, volume 5

Pax permanent Martian base: Space architecture for the

Evaluation of dried storage of platelets for transfusion: Physiologic integrity and hemostatic functionality

p 345 A93-41995

p 140 N93-18156

REISING, JOHN M.

an aiding technique REMINGTON, BRIAN

magnetosome observations

Virtually induced motion sickness

Pilot Candidate Selection Method (PCSM): What makes

RICCIO, GARY E.

environments

RICE, MALCOLM J.

[AD-A262871]

p 38 A93-16481

p 381 A93-49401

p 340 N93-29481

Target designation in a perspective view, 3-D map using

a joystick, hand tracker, or voice p 186 A93-27145

Enhanced softgoods structures for spacesuit micrometeoroid/debris protective systems

3-D target designation using two control devices and

p 408 A93-53120

REBHOLZ, PATRICK J.

[NASA-CR-192042]

REDDICK, ROBERT L.

Alteration of structure and mobility of erythrocyte	Evaluation of direct storage of platelets for transfusion:	[SAE PAPER 921258] p 299 A93-41428
aggregates under normal- to microgravity conditions	Physiologic integrity and hemostatic functionality [AD-A263240] p 334 N93-29620	REMINGTON, RANDY
p 200 A93-32072	REDDIX, MICHAEL D.	Design of a radiator shade for testing in a simulated
RATHJE, HERMANN	Effects of laser glare on visual search performance	lunar environment
Computer-generated parallel tests for aptitude	p 180 A93-28158	[NASA-CR-192080] p 108 N93-17710
measurement in the selection of aviation operators	REDILLA, CHRISTI L.	REMINGTON, ROGER W.
[DLR-FB-92-29] p 343 N93-31229	Design of a resistive exercise device for use on the	Involuntary attentional capture by abrupt onsets
Phases of the project development and examination methodologies p 343 N93-31231	Space Shuttle	p 97 A93-17974
The test memorization of symbols and numbers: A	[NASA-CR-192079] p 108 N93-17805	RENDON, LISA R.
computer generated test for visual sensitivity	REDZHEBOVA, O. K.	Metabolic responses to simulated extravehicular
p 343 N93-31233	Effect of hypoxic hypoxia on the immune response and	activity
The clearance test: A computer generated process for	some factors of nonspecific resistance of human and	[SAE PAPER 921303] p 282 A93-41468
acquisition of auditive short term sensitivity	animal organisms p 325 A93-43074	RENNER, G. F.
p 343 N93-31234	REE, MALCOLM J.	Evaluation of lightweight and low profile communications
The PARAT tests as examination system	Structured interviews for pilot selection - No incremental	devices for Respiratory Protective system 21 (RESPO
p 344 N93-31238	validity p 286 A93-39572	21) [AD-A253393] p 30 N93-10217
RAULIN, FRANCOIS	 Predicting aircrew training performance with 	
Titan p 114 N93-18553	psychometric g	RESCHKE, M. F. Vestibular ataxia following shuttle flights - Effects of
RAUNIG, D. L.	[AD-A264021] p 340 N93-30026	microgravity on otolith-mediated sensorimotor control of
Evaluation of Night Vision Goggles (NVG) for maritime	REED, CHARLES	posture p 169 A93-28750
search and rescue	Studies of the field-of-view resolution tradeoff in	Salivary total protein and experimental Coriolis
[AD-A257704] p 107 N93-17697	virtual-reality systems p 232 A93-33443	sickness p 383 A93-49573
RAUP, DAVID M.	REED, K. M.	RESCHKE, MILLARD F.
Geography of end-Cretaceous marine bivalve	Evaluation of test methods and requirements for	Statistical prediction of space motion sickness
extinctions p 273 A93-41075 RAVEN, P. B.	respiratory protection systems 21	p 403 A93-55943
Aerobic fitness. I - Response of volume regulating	[AD-A262466] p 317 N93-28757	RETAT, I.
hormones to head-down tilt p 167 A93-28721	REEVES, D. L.	Cardiovascular stress test with non-invasive
RAVEN, PETER B.	The OMPAT level 1 Neurophysiological Performance	techniques p 221 N93-24399
Hormonal responses during orthostasis following 4 hours	Assessment Battery: NPPAB [AD-A254840] p 27 N93-12432	RETHKE, DONALD W.
of head-down tilt p 379 A93-49221	REEVES, J. T.	Test of the Shuttle Extended Duration Orbiter (EDO)
RAWAL, S. B.	Operation Everest II - Spirometric and radiographic	Waste Collection Subsystem (WCS)
Changes in body fluid compartments during	changes in acclimatized humans at simulated high	[SAE PAPER 921346] p 305 A93-41505
hypohydration and rehydration in heat-acclimated tropical	altitudes p 383 A93-49574	REVZIN, A. M.
subjects p 251 A93-35496	REEVES, JOHN T.	A new test of scanning and monitoring ability: Methods
RAWICZ, ANDREW H.	Operation Everest II - Metabolic and hormonal	and initial results
Modelling and simulation of human retinal vision	responses to incremental exercise to exhaustion	[AD-A249123] p 24 N93-10321
processing p 335 N93-30269	p 115 A93-21685	REYNOLDS, D. B.
RAY, CHARLES	Operation Everest II - Gas tensions in expired air and	An innovative method for hand protection from extreme
Environmental control and life support system	arterial blood at extreme altitude p 117 A93-24043	cold using heat pipe
p 311 N93-27718	Hypoxic ventilatory responsiveness in Tibetan compared	[AD-A259720] p 235 N93-24128
RAY, CHARLES D.	with Han residents of 3,658 m p 280 A93-41120	REYNOLDS, K. H.
Environmental control and life support systems p 314 N93-27858	Beta-adrenergic blockade and lactate metabolism during	Preliminary design study of lunar housing
RAY, PAUL S.	exercise at high altitude * [AD-A263544] p 334 N93-29820	configurations p 106 N93-17443
Effects of fatigue and heat stress on vigilance of workers	[AD-A263544] p 334 N93-29820 REFINETTI, ROBERTO	REYNOLDS, RAY T.
in protective clothing p 177 A93-27173	Measurement of behavioral thermoregulation	Habitable zones around main sequence stars
RAY, R. J.	[PB92-217033] p 172 N93-21046	p 197 A93-28376
A membrane-based subsystem for water-vapor recovery	REGAL, DAVID M.	Europa: Prospects for an ocean and exobiological
from plant-growth chambers	Toward a flight deck automation philosophy for the	implications p 113 N93-18552
(NASA-CR-177602) p 149 N93-20065	Boeing High Speed Civil Transport	RHOADS, TIM
RAY, ROD	[SAE PAPER 921133] p 291 A93-41321	Microbiological methods for the water recovery systems
Operation of a breadboard	REGAN, D.	test, revision 1.1
liquid-sorbent/membrane-contactor system for removing	Shape discrimination and the judgement of perfect	[NASA-CR-184390] p 64 N93-12966
carbon dioxide and water vapor from air	symmetry - Dissociation of shape from size	RHODES, J. W.
[SAE PAPER 921321] p 304 A93-41483	p 224 A93-32788	Investigation of effects of 60-Hz electric and magnetic
A novel membrane device for the removal of water vapor	Sensory sensitivities and discriminations and their roles	fields on operant and social behavior and on the
and water droplets from air	in aviation (AD-A259742) p 224 N93-23479	neuroendocrine system of nonhuman primates, part 2
[SAE PAPER 921322] p 304 A93-41484	[AD-A259742] p 224 N93-23479 REGIAN, J. WESLEY	[DE92-040153] p 41 N93-13503
RAYLE, DAVID L	A preliminary empirical evaluation of virtual reality as	Investigation of effects of 60-Hz electric and magnetic
Cell wall and enzyme changes during the graviresponse	an instructional medium for visual-spatial tasks	fields on operant and social behavior and on the neuroendocrine system of nonhuman primates, part 1
of the leaf-sheath pulvinus of oat (Avena sativa) p 329 A93-44941	p 367 N93-32151	[DE92-040152] p 41 N93-13520
RAZDAN, RIKKI	REHBEIN, TRACY L.	Investigation of effects of 60-Hz electric and magnetic
Eye slaved pointing system for teleoperator control	Echocardiographic evaluation of the cardiovascular	fields on operant and social behavior and on the
p 101 A93-19090	effects of short-duration spaceflight p 87 A93-17551	neuroendocrine system of nonhuman primates:
RAZINKIN, S. M.	REHEL, RON	Neuroendocrine portion of Experiment 4
Features of an ethanol effect in operators with different	Cardiovascular responses during recovery from exercise	[DE92-040955] p 95 N93-16166
states of skin tissue basophils p 250 A93-35252	and thermal stress p 212 A93-30282	RIBAK, J.
REA, M. A.	REID, IAN D.	Predicting increases in skin temperature using heat
Study of SCN neurochemistry using in vivo microdialysis	A modular head/eye platform for real-time reactive	stress indices and relative humidity in helicopter pilots
in the conscious brain: Correlation with circadian activity	vision [OUEL-1941/92] p 320 N93-28897	p 167 A93-28729
rhythms	REINECKE, MICHAEL	RIBEIRO, N. L.
[AD-A259803] p 217 N93-23459	The human-electronic crew: Is the team maturing? The	Nutritional and lifestyle status of 50 pilots of the
READ, MAJORIE S.	2nd Joint GAF/RAF/USAF Workshop on	Portugese Air Force p 369 N93-32255
Evaluation of dried storage of platelets for transfusion:	Human-Electronic Crew Teamwork	RICCI, JUAN C. D.
Physiologic integrity and hemostatic functionality	[AD-A256192] p 69 N93-14520	Magnetic domain state and coercivity predictions for
[AD A363340] n 334 N93-29620		higgenic greigite (Fe3SA) - A comparison of theory with

Relationship between pituitary ACTH content and

The human-electronic crew: Is the team maturing? The

GAF/RAF/USAF

p 203 A93-33028

p 69 N93-14520

Workshop

hypothalamic catecholamines in the rat

Human-Electronic Crew Teamwork

Joint

[AD-A256192]

2nd

An analysis of a sustained flight operation training

Proceedings of a Workshop on Molecular Nuclear

p 131 N93-18205

p 285 N93-28835

mission in Navy attack aircraft

[AD-A258199]

[DE93-010828]

Medicine

RASMUSSEN, STEEN

an aiding technique

RATE, CHRIS

RATH, HANS J.

proto-biological organizations [DE92-015244]

Self-programming of matter and the evolution of

3-D target designation using two control devices and

p 5 N93-10628

p 408 A93-53120

RICE, VALERIE J.

The effects of Benadryl and Hismanal on mood, physiological measures, antihistamine detection, and subjective symptoms p 385 A93-52302

The effects of Benadryl and Hismanal on psychomotor performance and perceived performance

p 385 A93-52303

RICHALET, JEAN-PAUL

Hypoxia-induced downregulation of beta-adrenergic p 37 A93-14973 receptors in rat heart

Effects of acute hypoxia on renal and endocrine function at rest and during graded exercise in hydrated subjects p 93 A93-20035

Renal hemodynamics, tubular function, and response to low-dose dopamine during acute hypoxia in humans p 332 A93-44180

RICHARD, ELIZABETH E.

Space Station Freedom Environmental Health Care

[SAE PAPER 921138] p 292 A93-41325 RICHARD, R.

Lipodystrophies in the French military flight crew p 362 N93-32249

RICHARDS, MARVIN

Improving manikin biofidelity p 142 N93-19668

RICHARDS, MICHAEL J.

Examination of the relationship between changes in the demand for civil aviation services and the volume of flight

simulator training p 98 A93-18773 RICHARDS, R. B. Ground based simulation in test and evaluation

education [AIAA PAPER 92-4066] p 24 A93-11252

RICHARDSON, U. I.

Relationship between pituitary ACTH content and

hypothalamic catecholamines in the rat

p 203 A93-33028 RICHARDSON, W. G.

Prevention of cumulative trauma disorders

p 338 N93-31138 [PB93-188332]

RICHLET, J. P. Reduction of postprandial lipemia after acute exposure

to high altitude hypoxia p 382 A93-49567 RIDDLE, JEANNE

Blood and urine responses to ingesting fluids of various p 83 A93-17528 salt and glucose concentrations RIDDLE, JEANNE M.

Orthostatic function during a stand test before and after head-up or head-down bedrest p 84 A93-17530 Echocardiographic evaluation of the cardiovascular effects of short-duration spaceflight p 87 A93-17551

RIJKEN, P. J. Inhibition of EGF-induced signal transduction by microgravity is independent of EGF receptor redistribution

in the plasma membrane of human A431 cells p 272 A93-39715

RIJKEN, PHILIP J.

Altered gravity conditions affect early EGF-induced signal transduction in human epidermal A431 cells

p 376 A93-49214 RIKHIREVA. G. T.

Changes in the intensity of free-radical reactions in the organs of rats under hypokinetic stress, protected by the delta-sleep-inducing peptide and its tyrosine-containing p 378 A93-51101 analogue RILEY, D. A.

Distinguishing unloading- versus reloading-induced p 157 A93-28763 changes in rat soleus muscle

RILEY, GARY The application of integrated knowledge-based systems

for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595 RILEY, VICTOR

A systems analysis to identify human factors issues and

requirements for data link p 186 A93-27153 RIMPILAEINEN, M.

Plasmid encoded virulence of Yersinia

|FOA-B-40419-4.4| p 275 N93-28199 RINDT. JOHN R.

Plasma reactor waste management systems

p 68 N93-14000

Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic studies p 362 N93-32253

A new generation of astronauts in space - The astronaut p 57 A93-17071 selection process

RISER, DANIEL T.

Development of measures of crew coordination [AD-A255384] p 70 N93 p 70 N93-14651 RISIKKO, TANJA

Correlation of results of radiant heat test and convective heat test for three layered protective clothing
p 194 N93-21161 RITCHIE NICOLE A.

Requirements for an automated human factors, manpower, personnel, and training (HMPT) planning tool p 195 N93-21753 IAD-A2585311 RITTER, LESLIE S.

Effect of insulin-like factors on glucose transport activity p 399 A93-55458 in unweighted rat skeletal muscle RITTER, RICHARD D.

'And we were tired' fatigue and aircrew errors p 264 A93-37070

RITTER, ROXANE M.

Variations of time-to-incapacitation carboxyhemoglobin values in rats exposed to two carbon monoxide concentrations

p 274 N93-27152 IDOT/FAA/AM-93/71 Variations in time-to-incapacitation and blood cynanide values for rats exposed to two hydrogen cyanide gas concentrations

[DOT/FAA/AM-93/8]

p 283 N93-27158 RIZZETTO, MARIO

p 15 N93-11286

Clinical types of Hepatitis B ROACH, JOSEPH F.

Studies of a laser/nuclear thermal hardened body armor

[AD-A255128] p 34 N93-12423

ROACH, R. C.

Body fluid alterations during head-down bed rest in men at moderate altitude p 251 A93-35493 Effects of prolonged head-down bed rest on

physiological responses to moderate hypoxia p 251 A93-35494 Nifedipine for treatment of high altitude pulmonary edema

[AD-A256959] p 95 N93-16187

ROBBINS, DAVID O.

Analysis of retinal function following laser irradiation [AD-A255649] p 52 N93-14163

ROBBINS, DONALD E.

Radiological assessment for Space Station Freedom [NASA-TM-104758] p 128 N93-20303

ROBE, R. Q.

Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment)

p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime

search and rescue [AD-A257704] p 107 N93-17697

ROBERSON, BOBBY J. Development of a pyrolysis waste recovery model with

designs, test plans, and applications for space-based habitats p 267 N93-26076 habitats ROBERSON, WILLIAM C.

A study of decision making and performance in rejected

takeoffs SAE PAPER 921134) p 287 A93-41322

ROBERTS, A. K. The design and use of automotive crash test dummies

p 142 N93-19669 ROBERTS, D. E. Sustaining health and performance in the cold:

Environmental medicine guidance for cold-weather operation

p 23 N93-12145 Sustaining health and performance in the cold: A pocket quide to environmental medicine aspects of cold-weather

LAD-A2596251 p 218 N93-24021

ROBERTS, JACK C.

The design of mechanically compatible fasteners to human mandible reconstruction p 253 N93-25569 ROBERTS, M.

Inflatable habitation for the lunar base

p 106 N93-17442

ROBINETT, WARREN

A computational model for the stereoscopic optics of a head-mounted display p 390 A93-49393 Synthetic experience - A proposed taxonomy

p 390 A93-49398

ROBINETTE, KATHLEEN M. Anthropometry for HMD design p 229 A93-30069 Methods for characterizing the human head for the design of helmets IAD-A2638751 p 353 N93-29889

ROBINSON, M. C.

Design and evaluation of a payload to support plant growth onboard COMET 1 ISAE PAPER 9213891 p 308 A93-41547

ROBITAILLE, H. A.

ROBLYER, DWIGHT A.

Lunar base CELSS: A bioregenerative approach p 67 N93-13993

A toposcopic investigation of brain electrical activity induced by motion sickness p 124 N93-18952 [AD-A259024]

Operation Everest II - Spirometric and radiographic

Lunar subsurface architecture enhanced by artificial

The ECLSS advanced automation project evolution and

Occupant kinematics simulation of the Kegworth air

p 107 N93-17448

p 312 N93-27723

p 142 N93-19662

changes in acclimatized humans at simulated high altitudes p 383 A93-49574

ROCK, PAUL B.

ROCK, N.

accident

ROCK, P. B.

ROCHA, CARLOS J.

biosphere concepts

ROCHOWIAK, DANIEL M.

technology assessment

Operation Everest II - Metabolic and hormonal responses to incremental exercise to exhaustion

p 115 A93-21685 Operation Everest II - Gas tensions in expired air and arterial blood at extreme altitude p 117 A93-24043

ROCKER, LOTHAR Effects of 28-day isolation (ESA-ISEMSI'90) on blood

pressure and blood volume regulating hormones

p 251 A93-35495

RODE, BERND M. Evaporation cycle experiments - A simulation of salt-induced peptide synthesis under possible prebiotic

conditions p 354 A93-43792 RODE, T.

Changes in some lifestyle parametres in Norwegian pilots as students, and after 6 and 12 years of service p 370 N93-32261

RODGERS, E. B.

Aquatic biofilms and their responses to disinfection and

invading species [SAE PAPER 921211] p 296 A93-41387

RODGERS, MARK D.

Accident proneness: A research review [DOT/FAA/AM-93/9] p 2 p 288 N93-28622

RODGERS, SANDRA L.

Utilization of the graded universal testing system to increase the efficiency for assessing aerobic and anaerobic p 246 N93-26077 capacity

RODRIGUEZ, C. ALONSO Survey of smoking habits in the Spanish Air Force

p 370 N93-32262

ROE, S. P. Membrane technology: A search for membranes for

submarine atmosphere control

1AD-A2605811 p 266 N93-25904

ROEDIG, ERICH

Results and management of pathological lipoprotein concentrations and other cardiovascular risk factors in military pilots of the German Federal Armed Forces p 363 N93-32254

ROEDIGER, HENRY L., III

Comparing performance on implicit memory tests I AD-A258168 | p 131 N93-17921

ROENNEBERG, TILL

Two circadian oscillators in one cell

p 239 A93-34518 ROGERS, JOHN S.

The ECLSS advanced automation project evolution and p 312 N93-27723 technology assessment ROGERS, STEVEN

Computerized task battery assessment of cognitive and performance effects of acute phenytoin motion sickness ROGERS, STEVEN K.

Spectral analysis of the electroencephalographic response to motion sickness p 116 A93-24041

ROGERS, TOM D. Water purification, microbiological control, sterilization and organic waste decomposition using an electrochemical

advanced ozonation process |SAE PAPER 921234| p 297 A93-41408 Post-treatment of reclaimed waste water based on an

electrochemical advanced oxidation process p 301 A93-41444 ISAE PAPER 9212751 Alternative processes for water reclamation and solid waste processing in a physical/chemical bioregenerative

life support system ROGERS, W. R.

Investigation of effects of 60-Hz electric and magnetic fields on operant and social behavior and on the neuroendocrine system of nonhuman primates: Neuroendocrine portion of Experiment 4

p 95 N93-16166 [DE92-040955] Effects of 60-Hz electric and magnetic fields on operant and social behavior and on neuroendoctrine system of nonhuman primates

[DE93-007677] ROGERS, WENDY A.

Contextual change and skill acquisition in visual search Does the rate of change affect performance?

p 178 A93-27187

p 207 N93-22913

Automatic information processing and high performance skills: Individual differences and mechanisms performance improvement in search-detection and complex tasks

IAD-A2577111 p 100 N93-17684

ROGERS, WILLIAM H.

High level organizing principles for display of systems fault information for commercial flight crews

p 388 A93-52187

ROGOWITZ, BERNICE E.

Human vision, visual processing, and digital display II; Proceedings of the Meeting, San Jose, CA, Feb. 27-Mar.

SPIE-1453 | p 137 A93-25363

ROHATGI, NARESH

Human life support during interplanetary travel and domicile. VI - Generic modular flow schematic for hybrid physical/chemical-biological life support systems

ISAE PAPER 9211201 p 290 A93-41312

ROHATGI, NARESH K. Human life support during interplanetary travel and domicile. V - Mars expedition technology trade study for

ISAF PAPER 9211191 p 290 A93-41311

solid waste management ROLLAND, JANNICK P.

A computational model for the stereoscopic optics of p 390 A93-49393 a head-mounted display ROMANO, L.

Vaccination against Hepatitis B: The Italian strategy p 15 N93-11289

ROMERO, J. J. CANTON

Survey of smoking habits in the Spanish Air Force p 370 N93-32262

ROSARIO, JOSE

Effects on physiology and performance of wearing the aviator NBC ensemble while flying the UH-60 helicopter flight simulator in a controlled heat environment

I AD-A259909 J p 235 N93-23995

ROSCOE, A. H.

Assessing pilot workload - Why measure heart rate, HRV and respiration? p 168 A93-28741 ROSE, R. M.

Results of a structured psychiatric interview to evaluate NASA astronaut candidates p 223 A93-32780 ROSEKIND, MARK R.

Age, circadian rhythms, and sleep loss in flight crews p 211 A93-30276

ROSENBERG, CRAIG

The effect of geometric field of view and tunnel design for perspective flight-path displays

SAE PAPER 921131

ROSENTHAL, TALMA

Acute hypertensive response to +Gz acceleration in mildly hypertensive pilots p 386 A93-52307

ROSHCHINA, N. A.

Psychophysiological studies of acute hypoxic hypoxia A93-18417

ROSQVIST, R.

Plasmid encoded virulence of Yersinia

p 275 N93-28199 I FOA-R-40419-4 41 ROSQVIST, ROLAND

Intracellular targeting of the Yersinia YopE cytotoxin in mammalian cells induces actin microfilament disruption [FOA-B-40420-4.4] p 275 N93-27989

ROSS, IAN

Aircrew acceptance of automation in the cockpit p 144 N93-19761

ROSS, LEONARD E.

Pilot performance with blood alcohol concentrations below 0.04 percent p 46 A93-16151

ROSS, MURIEL D.

Computer-assisted three-dimensional reconstruction and simulations of vestibular macular neural p 104 A93-20700 connectivities

ROSSI, G. B.

HIV variability and perspectives of a vaccine

p 16 N93-11294

ROSSIGNOL, M.

Comparison of spinal health indicators in predicting spinal status in a 1-year longitudinal study

p 216 A93-32786

ROSSITTO, F.

A new generation of astronauts in space - The astronaut p 57 A93-17071 selection process Selection of astronauts for European space missions p 225 N93-24345

Effects of simulated microgravity (HDT) on blood p 44 A93-14972 fluidity

ROTHERAM, MARY

The development of an atmosphere composition monitor for the Environmental Control and Life Support System [SAE PAPER 921149] p 292 A93-41333

ROUEN, MICHAEL N.

Extravehicular activity system p 312 N93-27787 ROUSE, WILLIAM B.

The role of mental models in team performance in p 262 A93-34985 complex systems

Modeling the dynamics of mental workload and human performance in complex systems

AD-A258553| p 135 N93-19956 Specification of adaptive aiding systems

p 314 N93-27927 IAD-A2630711 ROWE, JOSEPH

Digest of Russian Space Life Sciences, issue 33 [NASA-CR-3922(39)] p 244 N93-25195 ROWE, ROGER

Regional changes in muscle mass following 17 weeks p 93 A93-20039 of hed rest

ROWLES, J. M. Can injury scoring techniques provide additional p 125 N93-19663 information for crash investigators? Is axial loading a primary mechanism of injury to the

lower limb in an impact aircraft accident? p 125 N93-19664

ROWLES, JOHN M. The effects of structural failure on injuries sustained in the M1 Boeing 737 disaster, January 1989

p 118 A93-25201

The effects of brace position on injuries sustained in the M1 Boeing 737/400 disaster, January 1989

p 118 A93-25202

ROWLEY, DENNIS A.

Flow cytometric analysis of lymphocyte surface markers following a 1-Gy dose of gamma radiation p 281 A93-41170

ROY, ROLAND R.

Absence of a growth hormone effect on rat soleus atrophy during a 4-day spaceflight p 272 A93-40548 ROYDEN, CONSTANCE S.

The perception of heading during eye movements p 99 A93-20692

ROZANOV, V. A.

Effect of low-frequency vibration on the activity of dehydrogenases in neurones of the nucleus vestibularis p 242 A93-35670 anterior of rats RUBIN, CLINTON T.

Training, muscle fatigue and stress fractures

p 54 N93-15006 RUBIN, YIFAT

Performance under dichoptic versus binocular viewing conditions - Effects of attention and task requirements p 287 A93-40772

RUDGE, FREDERICK W.

The role of ground level oxygen in the treatment of altitude chamber decompression sickness p 89 A93-18043

RUDISILL. MARIANNE

Display format and highlight validity effects on search performance using complex visual displays

p 187 A93-27160 Using GOMS models and hypertext to create representations of medical procedures for online display n 188 A93-27170

The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network (BRAIN) p 258 N93-25595

Evolving technologies for Space Station Freedom p 313 N93-27794 computer-based workstations RUEB, JUSTIN D.

KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation AD-A253931 I p 30 N93-10713

RUEKER, FLORIAN

Structure of a human monoclonal antibody Fab fragment against gp41 of human immunodeficiency virus type 1 p 203 A93-32850

RUFF-ROBERTS, ALYSON L.

Chloroflexus aurantiacus and ultraviolet radiation -Implications for Archean shallow-water stromatolites

RUFFNER, JOHN W.

Selective factors affecting rotary wing aviator performance with symbology superimposed on night vision n 35 N93-12508

[AD-A254983] The effects of superimposing symbology on a simulated night vision goggle display

[AD-A263458] n 354 N93-30590 RÜKER, F.

Computerized Test System

Structure of a human monoclonal antibody Fab fragment against gp41 of human immunodeficiency virus typ p 153 A93-28698

RUMBAUGH, DUANE M.

Cognitive competencies - Products of genes, experience, and technology p 201 A93-32113 experience, and technology Learning about primates' learning, language, and ognition p 201 A93-32124
Testing primates with joystick-based automated apparatus - Lessons from the Language Research Center's

p 202 A93-32651

Comparative assessment of psychomotor performance - Target prediction by humans and macaques (Macaca p 204 A93-33035 mulatta)

RUMIANTSEV, G. V.

Study of the functioning of the central and the peripheral contours of the thermoregulation system using a thermophysical model of the rabbit body

p 111 A93-23075 Investigation of the character of changes in the 'central' temperature of the body in cold environment, using a rabbit-body thermoregulation model p 112 A93-25651

RUMIANTSEV, V. P.

Engineering and technical support of experiments on board the Cosmos-2044 biosatellite p 77 A93-18419 The Inkubator-2 complex for studying the embryonic and postembryonic development of birds in conditions of . weiahtlessness n 241 A93-35242

RUMMEL, JOHN D. Exobiology: The NASA program p 114 N93-18561
RUMPF, ALEXANDER

User areas in aircraft cockpit, using methods of rapid

prototype development [MBB-FE-315-S-PUB-0493] p 196 N93-22389

RUMYANTSEV, G. V.

Adjustable temperature level of a physiological thermostat and the feasibility of its precise maintenance p 324 A93-43036

The efficiency of thermoregulatory responses in the cooling of the organism RUNDELL, JAMES R.

Measuring performance decrements in aviation personnel infected with the human immunodeficiency p 130 A93-25209

Relating cognitive function to military aviator performance in early HIV infection p 17 N93-11298 Neuropsychiatric morbidity in early HIV disease: Implications for military occupational function

p 18 N93-11299

p 380 A93-49228

RUNNER, K.

Visual specification of robot motion p 348 A93-42845

RUOKANGAS, CORINNE

A decision-theoretic approach to the display of information for time-critical decisions. The Vista project p 367 N93-32152

RUPERT, A.

Medical evaluation of spatial disorientation mishaps p 134 N93-19703

RUPERT, ANGUS H.

Spatial disorientation and dysfunction orientation/equilibrium reflexes - Aeromedical evaluation and considerations p.8 A93-10336 RUSAK, BENJAMIN

Neurophysiological analysis of circadian rhythm entrainment p 361 N93-32018

AD-A264681 RUSH, W. L. Coccidioidomycosis - A persistent threat to deployed

populations

RUSSELL, MICHAEL J. Mineral theories of the origin of life and an iron sulfide

A93-18009 RUSSO, DANE M. Space Station Freedom Environmental Health Care

Program [SAE PAPER 921138] p 292 A93-41325 RUTA, MARY

Health maintenance facility system effectiveness testing |NASA-TM-104737|

p 372 N93-32328 RUTZ JEFFREY A

Biofilm formation and control in a simulated spacecraft water system - Three year results [SAE PAPER 921310] n 303 A93-41472

RVACHEV. S. S. Engineering and technical support of experiments on board the Cosmos-2044 biosatellite p 77 A93-18419

RYAN, ARTHUR M. Cardiorespiratory measures of workload during ontinuous manual performance p 160 A93-27192 continuous manual performance

The development of an automated cell culture system for use in space life science research

p 158 N93-21085 RYAN, MIRELLE J.

Eccentric exercise training as a countermeasure to non-weight-bearing soleus muscle atrophy

n 78 A93-20033

RYAN, T. G. Crucial role of detailed function, task, timeline, link, and human vulnerability analyses in HRA [DE93-001923] p 321 N93-28942

RYDER, JOAN M.

Experimental validation of the attention switching component of the COGNET framework

p 186 A93-27141

PERSONAL AUTHOR INDEX SAUER, RICHARD L.

RYKIEL, EDWARD J., JR.

Growing wheat to maturity in reduced gas pressures |NASA-CR-193245| p 277 N93-29216

RYKOV, G. A.

Problems of medical support during extravehicular activity during flights to Mars p 90 A93-18411

RYLOVA, A. V.

Changes in the intensity of free-radical reactions in the organs of rats under hypokinetic stress, protected by the delta-sleep-inducing peptide and its tyrosine-containing analogue D 378 A93-51101

RYSDYK, R. TH.

What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment

| AIAA PAPER 93-3561 | p 406 A93-52661 RYZHOV. A. I.

Microwaves and the visual analyzer

p 250 A93-35247

SAAKIAN, S. G.

The effect of cortical vestibular area stimulation on the activity of the neurons of lateral vestibular nuclei during vibration p 2 A93-12863

SAAKOV, V. S.

Changes in the osmolality, monovalent cation concentration, and protein structure of blood plasma under extreme conditions p 200 A93-31188

SABO. V.

The Inkubator-2 complex for studying the embryonic and postembryonic development of birds in conditions of weightlessness n 241 A93-35242

SACHER, R.

Implementation of biological elements in life support systems - Rationale and development milestones

p 390 A93-49302

SACHLEBEN, R. A.

Development of resonance ionization spectroscopy for genome mapping and DNA sequencing using stable isotopes as DNA labels

p 246 N93-26587 I DE93-0078151

SACHS, FREDERICK

Effect of cytoskeletal reagents on stretch activated ion channels

IAD-A2610891 p 245 N93-25764

SAEKI, CHIKAKO

Arterial oxygen saturation during +Gz acceleration by short-radius centrifuge p 379 A93-49178

SAETIA. SOMPORN

Evaporation cycle experiments - A simulation of salt-induced peptide synthesis under possible prebiotic conditions p 354 A93-43792

SAFAR. M. E.

Microgravity and orthostatic intolerance - Carotid hemodynamics and peripheral responses

p 278 A93-39716

SAGÁWA. S.

Cardiovascular responses to upright tilt at a simulated altitude of 3,700 m in men p 212 A93-30281

SAGER, J. C.

Controlled ecological life-support system - Use of plants for human life-support in space p 190 A93-28715 Development of physical and mathematical models for the Porous Ceramic Tube Plant Nutrification System (PCTPNS)

NASA-TM-1075511 p 4 N93-10085 Engineering verification of the biomass production p 67 N93-13996

SAGER JOHN C

Controlled Ecological Life Support System - CELSS p 62 A93-17432

SAGI-DOLEV, ALYSIA M.

New technologies for in-flight pasteless bioelectrodes p 289 A93-41174

SAGI, JANOS

biochemical properties of Some an acyclic oligonucleotide analogue - A plausible ancestor of the DNA? p 269 A93-36560

SAIKINA, G. P. Cardiac bioelectric activity in healthy men during a

370-day head-down tilt experiment p 247 A93-35208 SAINI. J.

Nocturnal pituitary hormone and renin profiles during chronic heat exposure p 387 A93-52619 SAITO, MITSURU

Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 402 A93-55328

SAJDA, PAUL

Computer simulations of object discrimination by visual cortex

1AD-A2533451 p 12 N93-10271 SAKAI, A.

SAKAI, AKIO

Effects of high altitudes on finger cooling test in Japanese and Tibetans at Qinghai Plateau

p 382 A93-49560

Thermogenesis induced by inhibition of shivering during cold exposure in exercise-trained rats

p 75 A93-18039 SAKARA, L.

Cardiovascular risk factors in an Italian Air Force population: Preliminary report p 362 N93-32252 SAKARA LORENZO

Idiopathic Reactive Hypoglycemia in a population of healthy trainees of an Italian Air Force military school p 368 N93-32248

SAKHAROV, V. M.

Equivalent dose of cosmic rays at representative points p 248 A93-35223 of human-body models

SAKUMA, HIDETAKE

Human factors in the 'glass cockpit'

n 27 A93-11202 SAKURADA, SOHTARO

Effect of food intake on skin vasomotor responses to head-up tilt in humans p 379 A93-49180 SAKURAGI, SOKICHI

Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398

Behavioral adaptation to sustained hypobaric hypoxia manifested by timing behavior in rats. I

p 37 A93-15526 SALADA, THOMAS

Separation of rat pituitary secretory granules by continuous flow electrophoresis p 329 A93-44933 SALAFIA. W. R.

Stimulus presentation formats and measurement techniques for the quantification of target detection performance

I AD-A2589331 p 133 N93-19449

SALAS, EDUARDO

The role of mental models in team performance in complex systems p 262 A93-34985 Increasing hits and reducing misses in CRM/LOS Guidelines for simulator scenario p 286 A93-39575 development

SALINAS, CARLOS E.

Water purification, microbiological control, sterilization and organic waste decomposition using an electrochemical advanced ozonation process

|SAE PAPER 921234| p 297 A93-41408 Post-treatment of reclaimed waste water based on an electrochemical advanced oxidation process

|SAE PAPER 921275| p 301 A93-41444

SALISBURY, DAVID A.

The Canadian forces airsickness rehabilitation program, 1981-1991 p 89 A93-18042

SALTER, CHARLES A

The effects of an antijet lag diet p 370 N93-32263

SALZMAN, EDWIN

Facilitation of levodopa-induced dyskinesias by dietary p 203 A93-33029 carbohydrates

SAMEL, A.

Pre-adaptation to shiftwork in space

p 386 A93-52403

SAMEL. ALEXANDER Response of the circadian system to 6 deg head-down

tilt bed rest p 117 A93-24045 SAMPAIO, CARLOS E.

Adaptive strategies of remote systems operators

exposed to perturbed camera-viewing conditions p 187 A93-27155

SAMPSON, JAMES B.

The Environmental Symptoms Questionnaire (ESQ): Development and application IAD-A2641271 p 335 N93-30196

SAMS, C. F.

Alteration in human mononuclear leucocytes following space flight p 165 A93-28705

SANADA, ESTER

Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 375 A93-49179

SANCHEZ, ROBERT R.

Chromaticity and luminance as coding dimensions in visual search p 103 A93-19989 Predicting radiation induced performance decrements

of AH-1 helicopter crews. Volume 2: Evaluation of modeling and simulation techniques for predicting radiation induced performance decrements

IAD-A2628721

SANDERS, DONALD C.

Variations of time-to-incapacitation and carboxyhemoglobin values in rats exposed to two carbon monoxide concentrations

[DOT/FAA/AM-93/7] p 274 N93-27152

Variations in time-to-incapacitation and blood cynanide values for rats exposed to two hydrogen cyanide gas concentrations

[DOT/FAA/AM-93/8] p 283 N93-27158

SANDERS, J.

Functional MRI studies of human vision on a clinical [DE92-017448]

SANDLIN, DORAL E.

Recovering potable water from wastewater in space platforms by lyophilization SAE PAPER 9213231 p 304 A93-41485

SANDOR, P. B.

G-load effects and efficient acoustic parameters for p 146 N93-19775 robust speaker recognition

SANDSTROEM, G.

Characterization and classification of strains of Francisella tularensis isolated in the central Asian focus of the Soviet Union and in Japan p 275 N93-28200 IFOA-B-40421-4.41

SANFILIPPO, ANTHONY J.

Baroreflex function and cardiac structure with moderate endurance training in normotensive men

p 332 A93-44182

p 49 N93-12566

SANTEE, W. R.

Biophysical model for handwear insulation testing [AD-A262926] p 320 N93-28884

SANTY, P. A.

Results of a structured psychiatric interview to evaluate p 223 A93-32780 NASA astronaut candidates

SANTY, PATRICIA A.

Pharmacologic considerations for Shuttle astronauts p 85 A93-17537

Multicultural factors in the space environment - Results of an international shuttle crew debrief p 222 A93-30277

SAPOZHNIKOV, V. M.

Peroxidative oxidation of lipids and chromosome aberrations in mice after repeated exposures to a helium-oxygen respiration mixture under hyperbaric p 243 A93-35672 conditions

SAPP, WALTER J.

Effects of spaceflight on the spermatogonial population p 329 A93-44935 of rat seminiferous epithelium

SARAVANOS, D. A.

Optimal design of composite hip implants using NASA technology p 174 N93-22188 Shape optimization of tibial prosthesis components [NASA-CR-191123] p 246 N93-27085

SARIS, WIM H. M.

SARKISIAN, N. V.

Energy expenditure climbing Mt. Everest

p 92 A93-20031

The response of medullar respiratory neurons to the stimulation of the amygdaloid nuclei under hypoxia p 2 A93-12860

SARTAIN, J. B.

Lunar base CELSS: A bioregenerative approach p 67 N93-13993

SARTER, NADINE B. Pilot interaction with cockpit automation - Operational

experiences with the Flight Management System p 189 A93-27455

SARYKAYALAR, UMIT

Effectiveness of birthdate biorhythm theory on flight ccidents p 127 N93-19710 accidents

SASAKI, MITSUO

Flight crew sleep during multiple layover polar flights p 380 A93-49226 SATO, KOZO

A trade study method for determining the design parameter of CELSS subsystems SAE PAPER 921198] p 295 A93-41374

SATO, MIKIO

A trade study method for determining the design parameter of CELSS subsystems

[SAE PAPER 921198] p 295 A93-41374

Discomfort glare from high-intensity discharge headlamps: Effects of context and experience

p 336 N93-30659

SATO, TSUNEHISA Behavioral adaptation to sustained hypobaric hypoxia manifested by timing behavior in rats. I

p 37 A93-15526

SAUER, RICHARD L.

A systems approach to water recovery testing for space life support - Initial biomedical results from the ECLSS Water Recovery Test and plans for testbed utilization [SAE PAPER 921210] p 295 A93-41386 The development and testing of a volatile organics concentrator for use in monitoring Space Station water

ISAE PAPER 9212661 p 300 A93-41436

B-55

SAUERBORN, J. P.

PERSONAL AUTHOR INDEX Evaluation of capillary electrophoresis for in-flight ionic SCHAFFR LAUREN F SCHMITZ FRIC contaminant monitoring of SSF potable water A comparison of two Shuttle launch and entry suits -Initial experiments on the end-point control of a 2-DOF p 183 A93-27024 p 300 A93-41438 long-reach elastic manipulator |SAE PAPER 921268| Reach envelope, isokinetic strength, and treadmill tests Biofilm formation and control in a simulated spacecraft ISAE PAPER 9211541 p 293 A93-41337 SCHNEIDER VICTOR water system - Three year results Can the adult skeleton recover lost bone? SCHEGERIN, ROBERT p 93 A93-20656 [SAE PAPER 921310] p 303 A93-41472 For space suits - The multifunction pressure reducer-regulator of Intertechnique p 61 A93-15057 Regenerable Microbial Check Valve - Life cycle tests SCHNEIDER, VICTOR S. Regional changes in muscle mass following 17 weeks SCHEIBLE, O. KARL [SAE PAPER 921316] p 93 A93-20039 p 303 A93-41478 Ultraviolet disinfection technology assessment Prevention of space flight induced soft tissue Technology development for lunar base water p 67 N93-13999 p 64 N93-12983 recycling calcification and disuse osteoporosis SCHELTENS, PHILIP J. Regenerable biocide delivery u |NASA-CASE-MSC-21763-1-SB| p 214 A93-31545 Modelling and simulation of human retinal vision p 112 N93-18351 p 335 N93-30269 SCHNELL SYLVIA SAUERBORN, J. P. Ferrous iron oxidation by anoxygenic phototrophic acteria p 271 A93-39280 SCHENKER, P. S. Advances in miniature projection CRTs for helmet Operator performance with alternative manual control modes in teleoperation p 390 A93-49397 displays p 229 A93-30066 SCHNIDER, P. SAUERWEIN, TIMOTHY A. AUDIMIR - Directional hearing at microgravity SCHENKER, PAUL Evaluating robot procedures and tasks for the flight p 159 A93-26570 A teleoperation training simulator with visual and kinesthetic force virtual reality telerobotic servicer p 187 A93-27156 SCHNITZLER, BRUCE G. p 233 A93-33448 Radiation exposure and dose estimates for a SCHENKER, PAUL S. nuclear-powered manned Mars sprint mission Vascular uptake of rehydration fluids in hypohydrated Fusing human and machine skills for remote robotic p 60 A93-13817 men at rest and exercise p 137 A93-24994 [NASA-TM-103942] p 255 N93-26138 Interactive and cooperative sensing and control for SCHNORR, T. M. SAVAGE-RUMBAUGH, E. S. Fluorocarbon 113 exposure and cardiac dysrhythmias advanced teleoperation p 391 A93-49443 p 168 A93-28739 Cognitive competencies Products of genes. among aerospace workers p 201 A93-32113 experience, and technology Dynamic analysis of ocular torsion in parabolic flight SCHOEN, A. SAVAGE, C. Mir 1992 operations and crew training using video-oculography p 386 A93-52405 p 226 N93-24352 Recent regenerative ECLSS technology developments SCHERTZ, WILLIAM W. in Europe SCHOPF, J. W. Life support research and development for the Department of Energy Space Exploration Initiative [SAE PAPER 921332] Microfossils of the Early Archean Apex chert - New p 304 A93-41493 p 272 A93-40308 SAVAGE, P. D. p 137 A93-25309 evidence of the antiquity of life The General Purpose Work Station, a spacious SCHOR, ROBERT H. SCHIAFFINO, STEFANO microgravity workbench (SAE PAPER 921394) Neural processing of gravity information Myosin and troponin changes in rat soleus muscle after p 209 N93-23233 p 309 A93-41552 hindlimb suspension p 273 A93-41124 SAVARD, GABRIELLE K. SCHROEDER, DAVID J. SCHILL, W. B. Baroreflex function and cardiac structure with moderate Contribution of personality to the prediction of success Sperm motility under conditions of weightlessness in initial air traffic control specialist training endurance training in normotensive men p 156 A93-28730 p 259 N93-26138 p 332 A93-44182 SCHINK, BERNHARD SAVASAN, KEMAL Ferrous iron oxidation by anoxygenic phototrophic SCHROEDER, W. F. Effectiveness of birthdate biorhythm theory on flight coidents p 127 N93-19710 Rotating-wall vessel coculture of small intestine as a prelude to tissue modeling - Aspects of simulated p 271 A93-39280 SCHIPANI, S. P. p 171 A93-28765 SAVCHENKO, B. N. microgravity SCHUBERT, FRANZ H. System for generating dynamic video imagery for human Roentgenophosphene as an indicator of the radiation factors research An update on the readiness of vapor compression excitability of the central nervous system p 31 N93-11743 IAD-A2486751 p 325 A93-43078 SCHLAGER, KENNETH J. distillation for spacecraft wastewater processing | SAE PAPER 921114 | p 290 AS p 290 A93-41307 SAVOST'IANOVA, N. N. Transcutaneous Analyte Measuring Methods (TAMM), Informative value of the rerespiration method for SCHUETZE, HARALD phase 2 Higher capillary filtration rate in the calves of evaluating the functional resources of the cardiorespiratory [AD-A256327] p 54 N93-15192 endurance-trained subjects during orthostatic stress system during the simulation of certain flight factors Transcutaneous analyte measuring methods [AD-A262861] p 333 N93-29509 p 401 A93-55165 Efficiency of using iterative hypoxic hypercapnic stimuli for enhancing cardiorespiratory reserves under the effect SCHULTHEIS, LEX SCHLITT, H. A. A weighted iterative algorithm for neuromagnetic The mechanical control system of bone in weightless of radial accelerations p 249 A93-35244 spaceflight and in aging p 94 A93-2065 Artificial gravity augmentation on the moon and Mars imaging p 94 A93-20657 SAWA, TOSHIO IDF92-0402441 p 51 N93-13522 Experimental and theoretical study on membrane p 346 A93-42127 SCHLUTER, M. D. distillation using thermopervaporation [SAE PAPER 921397] Effect of spaceflight on human protein metabolism SCHULTZ, E. p 309 A93-41554 A simple hindlimb suspension apparatus p 360 A93-47097 p 398 A93-55168 SCHMEGNER, I. F. Acoustical and vibratory stimuli interdependencies and Influence of the Cold Buster (tm) sports bar on heat SCHULTZ, JOHN R. Evaluation of capillary electrophoresis for in-flight ionic their applications in simulation and cue synchronization debt, mobilization and oxidation of energy substrates AIAA PAPER 93-3562] p 285 N93-28939 contaminant monitoring of SSF potable water p 406 A93-52662 p 300 A93-41438 | SAE PAPER 921268 | SAWYER, HEYWOOD R. SCHMIDT, DANIEL J. Biofilm formation and control in a simulated spacecraft Effects of spaceflight on the proliferation of jejunal Helmet visor support apparatus mucosal cells water system - Three year results [SAE PAPER 921310] p 351 N93-29606 [AD-D015684] [NASA-CR-191303] p 303 A93-41472 p 51 N93-13449 Goggles emergency release apparatus [AD-D015685] p 351 N93-29607 Technology development for lunar base water cycling p 67 N93-13999 SCAGGS, T. Visual specification of robot motion recyclina Meta-analysis of integrity tests: A critical examination p 348 A93-42845 Cardiovascular response to lower body negative pressure before, during, and after ten days head-down SCANNELL. DENNIS of validity generalization and moderator variables AD-A254681 p 27 N93-12225 Ultraviolet disinfection technology assessment [PB92-222868] p 64 N93-12983 p 162 A93-28681 SCHMIDT, G. W. SCARBOROUGH, ERIC L. Pulmonary responses to lower body negative pressure Nitrogen control of chloroplast development and Methods for test and evaluation of night vision goggle differentiation and fluid loading during head-down tilt bedrest p 162 A93-28682 integrated helmets p 188 A93-27182 IDE92-0173921 p 39 N93-12768 SCARINGE, ROBERT P. Cardiopulmonary function during 10 days of head-down SCHMIDT, GREG K. Lightweight passive microclimate cooling device [AD-A262262] p 317 N93 The General Purpose Work Station, a spacious microgravity workbench p 162 A93-28683 p 317 N93-28112 The effects of a 10-day period of head-down tilt on the SCATTERGOOD, THOMAS [SAE PAPER 921394] p 309 A93-41552 cardiovascular responses to intravenous saline loading p 114 N93-18553 SCHMIDT. J. Titan p 163 A93-28686 SCHAARSCHMIDT, H. Effect of dexamethasone on proliferating osteoblasts -SCHULZ, J. R. Selection of astronauts for European space missions Inhibition of prostaglandin E2 synthesis, DNA synthesis, An integrated human/plant metabolic mass balance p 225 N93-24345 and alterations in actin cytoskeleton p 347 A93-42130 model SCHAECHTER, JUDITH D. p 155 A93-28728

solutions

rat hypothalamic slices

SCHAEFER, REINHARD

Hermes ECLSS - Main requirements and technical

Serotonin release varies with brain tryptophan levels

Tryptophan availability modulates serotonin release from

Effect of chronic D-fenfluramine administration on rat

hypothalamic serotonin levels and release

p 152 A93-27000

p 152 A93-27049

p 201 A93-32119

[SAE PAPER 921400] p 309 A93-41555

SCHAEFER, RON Medical care on the moon p 331 A93-42126 Pressure suit requirements for moon and Mars EVA's p 346 A93-42123

The influence of military low-altitude flight noise on the

Effects of chronic hypoxia and exercise on plasma

erythropoietin in high-altitude residents

p 377 A93-49555

inner ear of the guinea pig. I - Hearing threshold

The real world and lunar base activation scenarios

SCHMIDT, R.

SCHMIDT, W.

measurements

SCHMITT, HARRISON H.

p 68 N93-14014

Space biology initiative program definition review. Trade study 2: Prototype utilization in the development of space p 209 N93-23082 biology hardware

A systems approach to water recycling research

Contaminant distribution and accumulation in water

Space habitat environmental health - A systems issue p 347 A93-42151

p 347 A93-42149

p 307 A93-41519

SCHULZ, JON

SCHULZ, JON R.

ecycle systems

SCHULZE, ARTHUR E.

[SAE PAPER 921360]

SCHUTTE, PAUL C.	SEARLE, DANIEL	SERAJI, HOMAYOUN
High level organizing principles for display of systems fault information for commercial flight crews	Adaptive autonomous target cuer p 148 N93-19784 SEBASTIAN, LISA A.	Remote surface inspection system p 410 A93-55469
p 388 A93-52187	Influence of simulated microgravity on the maximal	SEREBROVSKAIA, TAT'IANA V.
Human-centered automation and AI - Ideas, insights, and issues from the Intelligent Cockpit Aids research	oxygen consumption of nontrained and trained rats p 323 A93-42192	Effects of a 1-yr stay at altitude on ventilation, metabolism, and work capacity p 92 A93-20028
effort p 407 A93-52764	SEDBON, GILBERT Looks can kill p 231 A93-31626	SERFOSS, GARY L.
SCHUTTE, W. Comet Halley as an aggregate of interstellar dust and	SEERY, RONALD E.	Effects of area-of-interest display characteristics of visual search performance and head movements in
further evidence for the photochemical formation of organics in the interstellar medium p 108 A93-17824	Helmet Mounted Display symbology integration research p 263 A93-35914	simulated low-level flight
SCHWARTZ, ALAN W.	SEGERER, ANDREAS H.	[AD-A264661] p 341 N93-30542 SEROUGNE, C.
Nucleotide analogs based on pentaerýthritol - An hypothesis p 325 A93-43794	Life in hot springs and hydrothermal vents p 243 A93-36559	Reduction of postprandial lipemia after acute exposure
SCHWARTZ, DEBORAH E.	SEGIZBAEVA, M. O.	to high altitude hypoxia p 382 A93-49567 SEROVA, L. V.
Exobiology in Solar System Exploration [NASA-SP-512] p 112 N93-18545	Control of breathing under conditions of altered atmospheric density during muscular work	Effects of spaceflight on the spermatogonial population
Overview: Exobiology in solar system exploration	p 89 A93-18288	of rat seminiferous epithelium p 329 A93-44935 SESHAN, P. K.
p 112 N93-18546 SCHWARTZ, ERIC L.	SEIBEL, MACHELLE M. Melatonin in human preovulatory follicular fluid	Overview of NASA's 1991 Life Support Systems Analysis
Computing with neural maps: Application to perceptual	p 215 A93-32474	Workshop SAE PAPER 921118 p 290 A93-41310
and cognitive function [AD-A264056] p 341 N93-30033	SEIBERT, M. Primary charge separation in isolated photosystem 2	Human life support during interplanetary travel and
SCHWARTZKOPF, S.	reaction centers (DE92-041128) p 82 N93-17189	domicile. V - Mars expedition technology trade study for solid waste management
Crop interactions in polyculture and their implications for CELSS design	SEIDLER, KAREN S.	[SAE PAPER 921119] p 290 A93-41311
[SAE PAPER 921197] p 295 A93-41373 Hazard and risk assessment for surface components	Distance and organization in multifunction displays p 102 A93-19986	Human life support during interplanetary travel and domicile. VI - Generic modular flow schematic for hybrid
of a lunar base Controlled Ecological Life Support	SEIFU, S.	physical/chemical-biological life support systems
System [SAE PAPER 921285] p 302 A93-41451	Ground-based control of Space Station Freedom-based robots p 263 A93-35570	SAE PAPER 921120 p 290 A93-41312 SESSLER, DANIEL I.
SCHWARTZKOPF, S. H.	SEIGNEURIC, A.	Limited heat transfer between thermal compartments
Gray water recycling with a unique vapor compression distillation (VCD) design	Immunization of personnel traveling to a destination in tropical countries: French position p 19 N93-11304	during rewarming in vasoconstricted patients p 88 A93-18036
[SAE PAPÈR 921318] p 304 A93-41480	Lipodystrophies in the French military flight crew	SETH, N.
SCHWARTZKOPF, STEVEN H. Anaerobic treatment of organic wastes from Controlled	p 362 N93-32249 SEILER, FRITZ A.	Visual specification of robot motion p 348 A93-42845
Ecological Life Support Systems	Beryllium toxicity - An update p 104 A93-20779	SEVERAC, ALEXANDRA
[SAE PAPER 921272] p 301 A93-41442 Space life support technology applications to terrestrial	SEKIGUCHI, C. Effect of transdermally administered scopolamine on the	Balance and gait analysis after 30 days -6 deg bed rest - Influence of lower-body negative-pressure sessions
environmental problems p 265 N93-25617	vestibular system in humans p 383 A93-49572	p 48 A93-16161
SCHWARZ, RAY P. Method for culturing mammalian cells in a perfused	SEKIGUCHI, CHIHARU Hemodynamic and hormonal correlates with exposure	SEXAUER, ROGER N. A low pressure electrolyzer for the next generation
bioreactor [NASA-CASE-MSC-21293-2] p 4 N93-10109	to lower body negative pressure after 12 hours head-down	submarine
[NASA-CASE-MSC-21293-2] p 4 N93-10109 Method for culturing mammalian cells in a horizontally	tilt p 379 A93-49220 SEKIGUCHI, M.	[SAE PAPER 921125] p 291 A93-41316 SHAFTO, MICHAEL G.
rotated bioreactor [NASA-CASE-MSC-21294-2] p 5 N93-10110	High-altitude pulmonary edema with pulmonary	Human support for Mars exploration - Issues and
SCHWEICKART, RANDOLPH W.	thromboembolism p 278 A93-39709 SELCON, S. J.	approaches p 27 A93-12077
Measurement of free and dissolved gas content of water samples on Space Station Freedom	Workload or situational awareness? TLX vs. SART for	SHAH, ASHWIN R. Probabilistic simulation of the human factor in structural
[SAE PAPER 921267] p 300 A93-41437	aerospace systems design evaluation p 175 A93-27139	reliability p 365 N93-31573
SCHWEYEN, RUDOLF J. Group II intron RNA catalysis of progressive nucleotide	Operator and automation capability analysis: Picking the	SHAHED, ASHA R. Acceleration-induced effects on baboon blood
insertion - A model for RNA editing p 398 A93-55292	right team p 319 N93-28864 SELF, HERSCHEL C.	chemistry p 376 A93-49224
SCOTT, ALLAN W. Understanding microwaves	A tutorial on exit pupils and eye rotation with virtual image	SHAINSKAIA, ALLA M. Ion transport across membranes under exposure of the
{ISBN 0-471-57567-4} p 357 A93-46300 SCOTT, BRYAN	optical displays [AD-A262399] p 333 N93-29400	organism to ionizing radiation [ISBN 5-12-001601-4] p 243 A93-35679
Catalytic oxidation for treatment of ECLSS and PMMS	SELIVRA, A. I.	SHAIYMOV, B. K.
waste streams [SAE PAPER 921274] p 301 A93-41443	Functional state of the central nervous system of guinea pigs after a prolonged stay in artificial atmospheres with	Effect of high temperature on the beta-adrenoreceptor activity and the catecholamine synthesis
SCOTT, CHARLES D.	different gas compositions p 75 A93-18287 SELLAND, M. A.	p 39 A93-16750
Life support research and development for the Department of Energy Space Exploration Initiative	Body fluid alterations during head-down bed rest in men	SHAKULA, A. V. Diagnostics and prophylaxis of adverse psychological
p 137 A93-25309	at moderate altitude p 251 A93-35493	states in marine aviation flight personnel
SCOTT, D. P. Sustaining health and performance in the cold:	Effects of prolonged head-down bed rest on physiological responses to moderate hypoxia	SHALIMOV, P. M.
Environmental medicine guidance for cold-weather operation	p 251 A93-35494	The prospects for the improvement of medical monitoring of the health of flight personnel in a military
(AD-A254328) p 23 N93-12145	SELVAKUMAR, S. Mathematical model for the exchange of gases in the	unit p 10 A93-12969
Sustaining health and performance in the cold: A pocket quide to environmental medicine aspects of cold-weather	lungs with special reference to carbon monoxide p 271 A93-39707	SHAMISS, ARIE Acute hypertensive response to +Gz acceleration in
operations	SEMENOVA, T. D.	mildly hypertensive pilots p 386 A93-52307
[AD-A259625] p 218 N93-24021 SCOTT, MICHAEL A.	Data bank establishment principles as applied to the problem of physiological norms in space medicine	SHAMS, T. Microcomputer based software for biodynamic
Active vibration damping of the Space Shuttle remote manipulator system p 231 A93-31993	p 249 A93-35234	simulation p 196 N93-22191 SHANAHAN, DENNIS
manipulator system p 231 A93-31993 Human-in-the-loop evaluation of RMS Active Damping	SENDA, KEI Theoretical and experimental studies for continuous path	Fatal mishap report - First SPH-4B flight helmet
Augmentation [AIAA PAPER 93-3875] p 393 A93-51460	control of flexible manipulator mounted on a free-flying	recovered from a U.S. Army helicopter mishap p 393 A93-52308
SCOTTO, P.	space robot [AIAA PAPER 93-3863] p 392 A93-51449	SHANSKY, J.
Body fluid alterations during head-down bed rest in men at moderate altitude p 251 A93-35493	SENNE-DUFF, BETH	Mechanically induced alterations in cultured skeletal muscle growth p 202 A93-32749
Effects of prolonged head-down bed rest on	The lifestyle and dietary consumption patterns of United States Air Force aviators within air training command at	SHANSKY, JANET
physiological responses to moderate hypoxia p 251 A93-35494	Randolph Air Force Base, Texas p 369 N93-32257	Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase
SCOUT, TERRA United States Army space experiment 601	SENO, SHIGEAKI On the reaction of 2-aminopropionitrile in aqueous	activity by a pertussis toxin sensitive mechanism [NASA-CR-193041] p 282 N93-27102
[AD-A261460] p 260 N93-26353	media p 354 A93-43791	SHAPIRO, JOSEPH I.
SEAGRAVE, RICHARD C. Space life support engineering program	SENSENY, JONATHAN A. Concrete lunar base investigation p 107 N93-17445	Metabolic factors influencing myocardial recovery from acidosis (CiC3)
[NASA-CR-192188] p 141 N93-19039	SEO, HISAO	[AD-A252376] p 14 N93-10796
SEALS, DOUGLAS R. Tissue-specific noradrenergic activity during acute heat	Modification of water and electrolyte metabolism during head-down tilting by hypoglycemia in men	SHAPOSHNIKOV, E. A. The asthenic syndrome and the dynamics of
stress in rats p 323 A93-42193	p 92 A93-20029	mental-work capacity p 256 A93-35241

SHAPPELL, S. A. SHEN, SHILIANG SHIPLEY, DEREK, E. Effects of dextromethamphetamine on subjective Protection of Chinese medicine and low frequency Autonomous support for microorganism research in fatique magnetic field against suspension induced bone loss in [AD-A258252] p 327 A93-44844 INASA-CR-1920621 p 83 N93-17780 p 119 N93-17822 Subjective fatigue in A-6, F-14, and F/A-18 aircrews SHIPOV, A. A. SHEN, XIAN-YUN during operations Desert Shield and Storm A free-fall flip-over response in rats after the flight The responses of cardiovascular during head-up tilt plus IAD-A2592431 n 171 N93-20580 onboard the Cosmos-936 biosatellite lower body negative pressure p 9 A93-11690 p 240 A93-35215 Simulated sustained flight operations and performance. Cardiovascular problems during space flight Part 1: Effects of fatigue Turning-over reaction during free fall p 213 A93-30445 labyrinthectomized rats after a flight on the Cosmos 936 p 266 N93-25859 IAD-A2610121 SHEN, XIANYUN SHAPPELL, SCOTT A. biosatellite p 241 A93-35246 Changes of REG during 4h head-down bed-rest SHIRAISHI, ATSUSHI The effect of combat on the work/rest schedules and p 46 A93-16075 fatigue of A-6 and F-14 aviators during Operation Desert Concept of waste transferring mechanisms [SAE PAPER 921239] p 297 Effects of two kinds of Chinese herb medicine on rabbit's Shield/Storm p 297 A93-41412 ear microcirculation under simulated weightlessness [AD-A258146] SHIRAKI, K. p 327 A93-44842 The effect of combat on aircrew subjective readiness and LSO grades during Operation Desert Shield/Storm SHENHAR, JORAM Cardiovascular responses to upright tilt at a simulated altitude of 3,700 m in men p 212 A93-30281 Evaluation of inertial devices for the control of large, AD-A258156 p 132 N93-18294 SHIRES, D. R. flexible, space-based telerobotic arms SHARAN M. System for generating dynamic video imagery for human p 101 A93-18710 Mathematical model for the exchange of gases in the SHENKER, MARTIN factors research lungs with special reference to carbon monoxide [AD-A248675] p 31 N93-11743 Helmet-mounted area of interest p 228 A93-30060 p 271 A93-39707 SHIRUMALLA, SHRAVAN Helmet-mounted area-of-interest display SHARAPOV, O. I. AD-A2582751 p 139 N93-18029 Motion planning of a dual-arm free-floating manipulator Infraslow bioelectric activity of the monkey's brain in SHEPARD, D. R. with inertially fixed base the development of the high-pressure neural syndrome p 75 A93-18286 p 393 A93-51450 [AIAA PAPÉR 93-3864] Aminohydroxybutane bisphosphonate and clenbuterol prevent bone changes and retard muscle atroph respectively in tail-suspended rats p 271 A93-3970 SHISHOV. A. A. The effect of elevated nitrogen pressure on motor activity New aspects of using hyperbaric oxygenation in aviation p 271 A93-39703 p 252 A93-36742 and relationships among brain centers in monkeys SHERIDAN, THOMAS medicine p 75 A93-18289 SHIU, Y. C. Virtual display aids for teleoperation SHARER, PETER J. p 183 A93-27029 Visual specification of robot motion p 348 A93-42845 Metabolic responses to simulated extravehicular SHERIDAN, THOMAS B. SHKURAT, T. P. activity World model and its uncertainty in supervisory robot |SAE PAPER 921303| p 282 A93-41468 Peroxidative oxidation of lipids and chromosome p 183 A93-27027 control SHARKEY, PAUL M. Automation, authority and angst - Revisited aberrations in mice after repeated exposures to a A modular head/eye platform for real-time reactive helium-oxygen respiration mixture under hyperbaric p 185 A93-27127 p 243 A93-35672 SHERMAN, LOUIS A. SHLYKOV, V. IU. IOUEL-1941/921 Biomass productivity and sustainability of a bioregenerative life-support system p 320 N93-28897 SHARKEY, THOMAS J. Illusions of visual-target motion caused by electrical p 119 A93-25653 Spatial orientation and dynamics in virtual reality system: vestibular stimuli [SAE PAPER 921359] p 307 A93-41518 SHOCK, EVERETT L. Lessons from flight simulation p 178 A93-27185 SHETTY, K. J. Cybersickness · Perception of self-motion in virtual Body fluid compartments, renal blood flow, and Chemical environments of submarine hydrothermal environments p 381 A93-49402 p 74 A93-18005 hormones at 6,000 m in normal subjects systems A demonstration of motion base design alternatives for p 281 A93-41125 Hydrothermal organic synthesis experiments p 74 A93-18007 p 74 A93-18010 the National Advanced Driving Simulator p 236 N93-24490 I NASA-TM-103881 I Aerobic fitness. I - Response of volume regulating Future research Autonomic physiological data associated with simulator Hydrothermal dehydration of aqueous organic hormones to head-down tilt p 167 A93-28721 discomfort INASA-CR-1776091 SHI, XIANGRONG p 397 A93-53291 p 222 N93-24738 Effects of dynamic exercise on cardiovascular regulation Hydrothermal organic synthesis experiments SHARRATT, M. p 41 N93-13457 [NASA-CR-191257] during lower body negative pressure Respiratory response to varying degrees of tilt and lower p 281 A93-41168 SHOEMAKER, K. body negative pressure p 173 N93-21114 Hormonal responses during orthostasis following 4 hours Respiratory response to varying degrees of tilt and lower SHASHKOV. V. S. p 379 A93-49221 p`173 N93-21114 of head-down tilt body negative pressure Hemodynamic status of humans during a graded rthostatic test p 248 A93-35221 SHOFNER, WILLIAM P. orthostatic test The development of a visual color checkerboard Auditory processing of complex sounds across frequency channels SHATTUCK, PAUL L. stimulator p 30 A93-13723 Flight Telerobotic Servicer legacy p 190 A93-29106 SHI, ZHIZHEN IAD-A253612] p 13 N93-10650 Flight Telerobotic Servicer legacy Protection of Acanthopanax senticosus SHOJAKU, H. p 231 A93-31032 [AIAA PAPER 93-1157] suspension-induced bone loss in rats p 2 A93-13528 Effect of transdermally administered scopolamine on the SHAW, R. G. Protection of Chinese medicine and low frequency vestibular system in humans p 383 A93-49572 Space Station Water Processor - Current flight design magnetic field against suspension induced bone loss in SHOJI, TAKATOSHI p 289 A93-41306 [SAE PAPER 921112] p 327 A93-44844 Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 SHAW, S. SHIELDS, BOBBY L. Does drinking protect against mountain sickness? EVA Glove Research Team SHONTZ, WILLIAM D. p 382 A93-49565 INASA-CR-193014] p 313 N93-27847 SHCHERBINSKII, V. V. A study of decision making and performance in rejected SHILENKO, M. P. Psychophysiological factors which takeoffs Effects of possible pollution sources of the atmosphere [SAE PAPER 921134] p 287 A93-41322 professional reliability of a pilot in emergency situations p 129 A93-23150 of a closed ecosystem on the growth of n 101 A93-18418 SHOPE, W. B. microorganisms Army cockpit delethalization program SHCHIPANOVA, I. N. p 61 A93-15419 Ozone - A new aspect of its effect on microorganisms The effect of elevated nitrogen pressure on motor activity p 398 A93-54971 and relationships among brain centers in monkeys SHOU. R. Z. p 75 A93-18289 The dynamic mathematical model and digital simulation SHEA, J. D. SHIMAMOTO, MIKE S. Enhanced carotid-cardiac baroreflex response and of the environmental control system p 61 A93-14319 TeleOperator/telePresence System (TOPS) Concept elimination of orthostatic hypotension 24 hours after acute SHOWERS, WILLIAM J. Methane transport mechanisms Verification Model (CVM) development and isotopic exercise in paraplegics p 216 A93-32781 p 367 N93-32112 fractionation in emergent macrophytes of an Alaskan SHEBELA, A. SHIMANSKAIA, E. I. p 38 A93-16544 tundra lake Oxygen regime in the frontal cerebral cortex of monkeys Peroxidative oxidation of lipids and chromosome SHPATENKO, YU. A. during a two-week space flight p 272 A93-40773 aberrations in mice after repeated exposures to a Dynamics of electroencephalographic indices during SHEBILSKE, WAYNE helium-oxygen respiration mixture under hyperbaric acute hypoxia p 402 A93-55333 A preliminary empirical evaluation of virtual reality as p 243 A93-35672 conditions an instructional medium for visual-spatial tasks SHTEMBERG, A. S. SHINN, J. L. p 367 N93-32151 Combined effect of head-down tilt and gamma rays on Track structure model for damage to mammalian the higher nervous activity of rats p 242 A93-35262 SHEIKH-ZADE, IU. R. cultures during solar proton events p 75 A93-18073 Vagotropic effects of peptides isolated from the brain SHTERN, FAINA Human exposure to galactic cosmic rays in space of hibernating susliks p 38 A93-16749 Digital mammography, cancer screening: Factors p 410 A93-54887 important for image compression p 221 N93-24551 SHEKHOVTSEV, I. K. SHINN, JUDY L. Dynamics of electroencephalographic indices during SHU, Z. J.

Target fragmentation in radiobiology

Hybrid 2 and hybrid 3 dummy neck properties for

LIAC - A closed ecosystem research facility

p 124 N93-18381

p 66 N93-13874

p 347 A93-42129

INASA-TM-44081

computer modeling

[AD-A255544]

SHIPLEY, DEREK E.

SHIPLEY, BUFORD W., JR.

Spectral motion produces an auditory after-effect

The influence of flight experience on midair collision risk

Main medical results of extended flights on Space

SHUCH, H. P.

perception

SHUL'ZHENKO, E. B.

Station Mir in 1986-1990

p 405 A93-55579

p 180 A93-28707

p 386 A93-52401

p 402 A93-55333

p 340 N93-29610

acute hypoxia

SHELLENBERGER, KATHY

[NASA-CASE-MSC-21625-1]

SHELTON, ROBERT O.

Separation of rat pituitary secretory granules by continuous flow electrophoresis p 329 A93-44933

An accelerated training method for back propagation

SHUPERT, C.

Vestibular ataxia following shuttle flights - Effects of microgravity on otolith-mediated sensorimotor control of

SHURTLEFF, DAVID

An assessment of peripheral nerve damage in the rat following non-freezing cold exposure: An electrophysiological and histopathological examination p 331 N93-30818 1AD-A2642931

SHVAREVA, N. V.

Regulation of the carbohydrate metabolism in humans p 384 A93-51117

SIBEL'DINA, L. A.

Ozone - A new aspect of its effect on microorganisms p 398 A93-54971

SICARD, BRUNO A.

Evaluation of zolpidem on alertness and psychomotor abilities among aviation ground personnel and pilots p 401 A93-55163

SICONOLFI, S. F.

Program development for exercise countermeasures ISAE PAPER 9211401 p 292 A93-41327

SICONOLFI, STEVEN F. Effect of aerobic capacity on Lower Body Negative Pressure (LBNP) tolerance in females

[NASA-TP-3298]

p 128 N93-20318 Comparison of total body water estimates from O-18 and bioelectrical response prediction equations

[NASA-TP-3299] p 218 N93-23734

SIDOROVA, K. A.

The role of rheoencephalography in the practice of aviation medicine p 160, A93-27649

SIEDBAND, MELVIN P.

X Ray System, Lightweight Medical (XRSLM) [AD-A258159] p 123 N p 123 N93-18295

SIEGEL, BRIAN

Contact lenses in aviation - The Marine Corps experience p 289 A93-41172

SIEM, FREDERICK M.

Predictive validity of an automated personality inventory for Air Force pilot selection p 179 A93-27452

SIEVERS, ANDREAS

How well does the clinostat mimic the effect of microgravity on plant cells and organs?

p 376 A93-49213

SIGNORINI, C.

On the biological effects of cosmic rays - Epidemiological p 239 A93-34858 studies

SIGWORTH, S. K.

Quantitative autoradiographic analysis of muscarinic cholinergic and GABAA (benzodiazepine) receptors in the forebrain of rats flown on the Soviet Biosatellite COSMOS p 156 A93-28743

SILBIGER, MARTIN S.

A comparison of neural network and fuzzy clustering techniques in segmenting magnetic resonance images of the brain p 214 A93-31267

SILS, INGRID V.

Effect of protective clothing ensembles on artillery battery crew performance IAD-A2543271 p 64 N93-12960

SILVEIRA, S. R.

Nutritional and lifestyle status of 50 pilots of the p 369 N93-32255 Portugese Air Force SILVERSTEIN, JOANN

Contaminant distribution and accumulation in water recycle systems

[SAE PAPER 921360] p 307 A93-41519 Inactivation of a model coliphage virus in water by iodine

p 274 A93-41520 [SAE PAPER 921361] Generation of iodine disinfection by-products (IDP's) in

a water recycle system |SAE PAPER 921362|

p 307 A93-41521 A systems approach to water recycling research p 347 A93-42149

SILVERSTEIN, LOUIS D.

Spatial judgments with monoscopic and stereoscopic presentation of perspective displays p 102 A93-19988 Visibility of transmissive figuid crystal displays under dynamic lighting conditions p 103 A93-19990

SIMANONOK K.

Effect of hemorrhage on cardiac output, vasopressin, aldosterone, and diuresis during immersion in men [NASA-TM-103949] p 6 N93-12014

SIMANONOK, KARL E.

Blood volume reduction counteracts fluid shifts in water p 118 A93-25206 immersion

SIMON, ROBERT

Development of the Personnel-based System Evaluation Aid (PER-SEVAL) performance shaping functions p 26 N93-11779

Development of measures of crew coordination |AD-A255384| p 70 N93 p 70 N93-14651

Attention factors associated with head-up display and helmet-mounted display systems

LAD-A2602041 p 235 N93-24001 SIMONDS, CHARLES H.

Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 SIMONEIT, BERND R. T.

p 74 A93-18010 Aqueous high-temperature and high-pressure organic

geochemistry of hydrothermal vent systems p 397 A93-53285

SIMONSEN, L. C.

Temporal analysis of the October 1989 proton flare using computerized anatomical models p 216 A93-32785 SIMONSEN, LISA C.

Radiation exposure predictions for long-duration-stay

Mars missions LAIAA PAPER 92-45841 p 28 A93-13288 Radiation exposure and dose estimates for a

nuclear-powered manned Mars sprint mission p 60 A93-13817 Radiation exposure predictions for short-duration stay

Mars missions [AAS PAPER 92-107] p 277 A93-39261 Human factors evaluation of the HL-20 full-scale p 409 A93-53746 Conceptual design of a lunar base thermal control

SIMPSON, LANCE L.

A core facility for the study of neurotoxins of biological

origin | AD-A254359 |

p 50 N93-12945 SIMPSON, R.

Integration of exterior lighting systems and night vision imaging systems [AD-A254826]

SINACORI, JOHN B.

A demonstration of motion base design alternatives for the National Advanced Driving Simulator p 236 N93-24490

[NASA-TM-103881] SINGH, INDRAMANI

Adaptive automation and human performance. 3: Effects of practice on the benefits and costs of automation

1AD-A2543811

p 64 N93-12860 SINGH, INDRAMANI L.

Performance consequences of automation-induced

'complacency' p 286 A93-39571

Mathematical model for the exchange of gases in the lungs with special reference to carbon monoxide p 271 A93-39707

p 307 A93-41515

p 68 N93-14003

Changes in body fluid compartments during hypohydration and rehydration in heat-acclimated tropical p 251 A93-35496

SINGH, MEGHA

Alteration of structure and mobility of erythrocyte aggregates under normal- to microgravity conditions p 200 A93-32072

SINGHAL, R. K.

Robotics evaluation and characterization (REACH) of the SSRMS concept and technical issues p 230 A93-31031 [AIAA PAPER 93-1156]

SIPES, WALTER E.

Field test of a computer-driven tool to measure psychological characteristics of aircrew I AD-A264484] p 341 N93-30425

SIRKO, ROBERT J.

Plant canopy transpiration in bioregenerative life support systems - The link between mechanistic and empirical

ISAE PAPER 9213551

p 306 A93-41514 Plant growth modeling at the JSC variable pressure growth chamber - An application of experimental design

[SAE PAPER 921356] SITLER, GLENN A.

Dew point analysis for Space Station Freedom

[SAE PAPER 921227] p 296 A93-41401

glare from high-intensity discharge Discomfort headlamps: Effects of context and experience

p 336 N93-30659 [PB93-174720]

Characterization and classification of strains of Francisella tularensis isolated in the central Asian focus of the Soviet Union and in Japan p 275 N93-28200 [FOA-B-40421-4.4]

Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia [FOA-B-40422-4.4] p 275 N93-28212

The USO-concept applied to a biological model xperiment p 210 N93-24379 experiment

SKATRUD, JAMES B.

Determinants of poststimulus potentiation in humans during NREM sleep p 78 A93-20034

SKLAIR, CHERYL

Accuracy of locating circular features using machine

SKWERES, JOYCE A.

Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 A93-41390

SLADE, HOWARD

Evolving EVA system capability for the evolving Space Station Freedom requirements p 312 N93-27791

SLATER, TIMOTHY

Subjective mood and fatigue of C-141 crew during Desert p 370 N93-32264 Storm C-141 aircrew sleep and fatigue during the Persian Gulf conflict p 371 N93-32265

SLEDKOV, A. IU.

Polyphosphoinositide to neurotransmitters after an exposure to a helium-oxygen atmosphere at a high pressure p 76 A93-18296

SLEEPER, HOWARD L.

Space life support technology applications to terrestrial environmental problems p 265 N93-25617

SLEGTENHORST, R. P.

A new concept for helmet mounted vision p 145 N93-19767

SLEPCHUK, N. A.

The values of the skin-temperature gradients and their significance for thermoregulation p 9 A93-12862

SLESAREV, ALEKSEI I. DNA topoisomerase V is a relative of eukaryotic topoisomerase I from a hyperthermophilic prokaryote

p 399 A93-55580

SMETANIN, B. N. Illusions of visual-target motion caused by electrical estibular stimuli p 119 A93-25653 vestibular stimuti

SMIRNOV, I. V.

Consequences of a basic model of external-information p 98 A93-18414 perception

SMIRNOV, K. L.

Effects of spaceflight on the proliferation of jejunal mucosal cells p 51 N93-13449

[NASA-CR-191303]

SMIRNOV, K. V. Formation of the hypokinetic syndrome in the digestive system under conditions of weightlessness

p 119 A93-25600

SMIRNOV, M. B.

A device for the prolonged restraint of primates in losed-space conditions p 77 A93-18302 closed-space conditions SMIRNOV, R. V.

A comparative analysis of the bone marrow cell composition in rats following a long-duration continuous or interrupted exposure to a hypogeomagnetic field p 240 A93-35213

Effect of an attenuated geomagnetic field on the cellular composition of the epithelial-spermogenous layer of rat testes

SMIRNOV, V. S. Immune and physiological mechanisms of hypoxic pactions p 384 A93-51116 reactions

SMITH. ALAN T.

Human low vision image warping - Channel matching considerations SMITH, ARTHUR H.

Centrifuges - Their development and use in gravitational biology p 376 A93-49210

SMITH, DAMON C.

Measurement of free and dissolved gas content of water samples on Space Station Freedom [SAE PAPER 921267] p 300 A93-41437

Space habitat contaminant growth models. II p 345 A93-42094

SMITH, GENA

Effects of fatigue and heat stress on vigilance of workers protective clothing p 177 A93-27173 in protective clothing

Investigation of effects of 60-Hz electric and magnetic fields on operant and social behavior and on the

neuroendocrine system of nonhuman primates p 211 N93-24455 IDE93-0076781

SMITH, JAMES J. Posture and the circulation - The age effect

p 93 A93-20653

Autonomous support for microorganism research in snace [NASA-CR-192062] p 83 N93-17780

SMITH, JEFFREY D.

LIAC - A closed ecosystem research facility p 347 A93-42129

SMITH, LOUIS H., III PERSONAL AUTHOR INDEX

SMITH, LOUIS H., III Retroperitoneal fibrosis as a cause of hypertension in an aviator - A case report p 212 A93-30284 SMITH, M. L. Alteration in human mononuclear leucocytes following

p 165 A93-28705

SMITH, RICHARD A.

Two techniques for measuring locomotion impact forces during zero G INASA-TP-33051 p 217 N93-23410

SMITH, ROBERT A.

Receptoral and neural aliasing 1AD-42614381

p 261 N93-26489 SMITH, STEPHEN

Exocentric judgements in real environments and stereoscopic displays p 189 A93-27190 SMITHERS, G. A.

Aquatic biofilms and their responses to disinfection and invading species

ISAE PAPER 9212111 p 296 A93-41387 Microbiological analysis of debris from STS-42 IML-1 by direct plating of rinse waters

[NASA-TM-108375] p 6 N93-12174 SMORODIN, B. A.

A device for the prolonged restraint of primates in closed-space conditions A93-18302 SNODGRASS, JOAN G.

Facilitation and interference in identification of pictures

and words [AD-A261484] p 260 N93-26356

SNOW, TERESÁ K. Monitoring core temperature during exercise - Ingestible sensor vs. rectal thermistor p 394 A93-52309

SNYDER, CHRISTINE A. Air Traffic Control facility lighting p 188 A93-27167

SNYDER, GORDON for microbial Instrumentation monitoring

decontamination or biocide system effectiveness [SAE PAPER 921233] p 297 A93-41407

SNYDER, HARRY L. The effects of Benadryl and Hismanal on mood,

physiological measures, antihistamine detection, and p 385 A93-52302 subjective symptoms The effects of Benadryl and Hismanal on psychomotor

performance and perceived performance p 385 A93-52303

SNYDER, K. W.

A heat transfer analysis of a mobile vehicle radiation-shielded operator compartment p 264 N93-25318

SNYDER, QUAY C., JR.

Prospective assessment of stereoscopic visual status and USAF pilot training attrition p 116 A93-24039 SO, RICHARD H. Y.

Compensating lags in head-coupled displays using head position prediction and image deflection

p 231 A93-31782 SOBEL, ANNETTE L.

Design of the man-machine interface for an automatic p 348 A93-42843 target cuer system

SOBH, TAREK M. Operator/system communication optimizin decision tool p 101 A93-19104

SOELTER. M. Cardiovascular with stress test non-invasive

p 221 N93-24399 techniques SOINA, V. S.

Cryoprotective properties of water in the earth cryolithosphere and its role in exobiology p 269 A93-36558

SOKOL F. A.

Problems of medical support during extravehicular activity during flights to Mars p 90 A93-18411 SOKOLOV. A.

Eye-head-arm coordination and spinal reflexes in p 236 N93-24362 weightlessness

SOKOLOVA, I. B.

Distribution of oxygen tension in pial arterioles of rats under normobaric hyperoxia p 76 A93-18295

SOKOLOVA, M. M. Changes in the osmolality, monovalent cation

concentration, and protein structure of blood plasma under extreme conditions p 200 A93-31188 p 200 A93-31188

Dynamics of normalization of some behavioral and neurochemical disturbances in rats caused by the deprivation of the paradoxical sleep stage

p 111 A93-23074 SOLERSSI, ROSA

Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism p 282 N93-27102 INASA-CR-193041 |

SOLLERTINSKAIA, T. N.

The role of dermorphin in the regulation of the winter hibernation processes in mammals p 38 A93-16748 SOLOMKO, A. P.

Diurnal rhythmicity of human orthostatic stability p 250 A93-35253

SON, CHANG H.

Comparative test data assessment and simplified math modelling for Sabatier CO2 reduction subsystem ISAE PAPER 9212281 n 296 A93-41402

SOROKIIN, IU. V. Diurnal rhythmicity of human orthostatic stability p 250 A93-35253

Differential effects of long-term hypoxia norepinephrine turnover in brain stem cell groups p 78 A93-20030

SOUTHAM, T. H.

The MOD (UK) integrated helmet technical demonstrator programme p 145 N93-19769

SOUZA, KENNETH A.

An overview of gravitational physiology [NASA-TM-102849] p p 35 N93-12319 Studying the effects of microgravity on lower vertebrate p 158 N93-21099 development and behavior

SPACH, GERARD

Some biochemical properties oligonucleotide analogue - A plausible ancestor of the p 269 A93-36560

SPANOS, P. D.

Development of a large space robot - A multi-segment approach. I

AIAA PAPER 93-1463 | p 261 A93-34012 Development of a large space robot - A multi-segment approach. II

I AIAA PAPER 93-1464 J p 262 A93-34013

SPARKES, BRIAN G.

Mechanisms of immune failure in burn injury

p 15 N93-11285 SPARLING, PHILLIP B.

Monitoring core temperature during exercise - Ingestible p 394 A93-52309 sensor vs. rectal thermistor SPAULDING, GLENN

High density cell culture system [NASA-CASE-MSC-22060-1] p 114 N93-19037

SPECTOR, ELISABETH

Regional changes in muscle mass following 17 weeks of hed rest p 93 A93-20039

SPEETER, THOMAS H. Transforming human hand motion for telemanipulation

p 390 A93-49394

SPENCER, G. A. Early markers of HIV infection and subclinical disease

p 17 N93-11296

Adaptive filters for monitoring localized brain activity from surface potential time series DE93-003795 p 217 N93-22774

SPEYER, J. J.

Human factors and the safety of flights: The importance of the management of sleep SPIDALIERE, PETER D. p 371 N93-32267

Characteristics and requirements of robotic manipulators p 182 A93-27003 for space operations Safety issues of manipulator systems under computer p 192 A93-29121

SPIEGEL, JACK

Immunoconjugates: Magic bullets for cancer therapy? p 253 N93-25567

SPIELVOGEL, H.

Effects of chronic hypoxia and exercise on plasma erythropoietin in high-altitude residents n 331 A93-42191

SPINWEBER, CHERYL L.

Flight crew sleep during multiple layover polar flights p 380 A93-49226

SPITTLE, ERIC K.

Hybrid 2 and hybrid 3 dummy neck properties for computer modeling IAD-A2555441 p 66 N93-13874

SPOONER, B. S.

Cytokine secretion by immune cells in space

p 153 A93-28694 Localization of extracellular matrix components in developing mouse salivary glands by confocal microscopy p 155 A93-28725 Alterations in biosynthetic accumulation of collagen types I and III during growth and morphogenesis of p 156 A93-28746 embryonic mouse salivary glands SPROTT, RICHARD L.

Conference on Correlations of Aging and Space Effects on Biosystems, Oct. 30-Nov. 1, 1989, Proceedings p 79 A93-20651

SOURES W.G.

Aerobic fitness. I - Response of volume regulating hormones to head-down tilt p 167 A93-28721 SQUIRES, WILLIAM G.

Hormonal responses during orthostasis following 4 hours p 379 A93-49221 of head-down tilt

SQUYRES, STEVEN W.

Europa: Prospects for an ocean and exobiological p 113 N93-18552 implications

SRIDHAR; K. R.

Thermal control systems for low-temperature heat rejection on a lunar base

SRINIVAS, SAMPATH

A decision-theoretic approach to the display of information for time-critical decisions: The Vista proje p 367 N93-32152

SRINIVASSEN, M.

Design requirements for force reflecting master p 139 N93-18035 controllers

STADEAGER C

Arterial pulse pressure and vasopressin release in humans during lower body negative pressure p 360 A93-47096

STADEAGER, CARSTEN

Volume-homeostatic mechanisms in humans during a 12-h nosture change p 387 A93-52620

STAGNARO, MICHAEL J.

Integration of advanced teleoperation technologies for p 366 N93-32107 control of space robots

STAHLBERG, GABRIELE

The cube rotation test: A computer generated process for acquisition of mental spatial manipulator capability p 344 N93-31237

STALLING, DAVID L.

Chemical and toxicological assessment environmental contaminants in the Lunar-Chemical Analysis Laboratory p 62 A93-17433

STAN-LOTTER, HELGA

Purification and properties of an ATPase from Sulfolobus p 201 A93-32115 entfatarious Nucleotide-protectable labeling of sulfhydryl groups in I of the ATPase from Halobacterium p 201 A93-32116 saccharovorum Comparison of membrane ATPases from extreme halophiles isolated from ancient salt deposits

p 243 A93-36557

p 34 N93-12211

p 65 N93-13717

STANEK, ELAINE M. Prolactin-induced mitogenesis of lymphocytes from p 329 A93-44934

ovariectomized rats STANLEY, H. E.

Long-range anticorrelations and non-Gaussian behavior p 161 A93-28049 of the heartbeat

STANNY, R. R. The OMPAT level 1 Neurophysiological Performance

Assessment Battery: NPPAB

IAD-A2548401 p 27 N93-12432

STANTON, CRAIG

Pressure, composition, and temperature control of cabin atmosphere on Space Station Freedom p 296 A93-41392 ISAE PAPER 9212161

STANUSH, JULIÉ

Methodology issues concerning the accuracy of kinematic data collection and analysis using the ariel performance analysis system

STARCK, JUKKA

NASA-CR-185689 |

Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497

STARK, L. W. Visual search in virtual environments

p 233 A93-33450

STARK, LAWRENCE

Depth cue interaction in telepresence and simulated p 232 A93-33446 telemanipulation Timing considerations of Helmet Mounted Display performance p 233 A93-33449

STARSHINOVA, E. G.

The role of rheoencephalography in the practice of p 160 A93-27649 aviation medicine

STATLER, IRVING C.

A voyage to Mars: A challenge to collaboration between man and machines p 70 N93-14614

STAVERT, D. M.

Potential health hazards from thermal degradation events · Particulate vs. gas phase effects **ISAE PAPER 9213881** p 282 A93-41546

STAVROPOULOS, A.

[SAE PAPER 921112]

Correlation of life-style and dietary concomitants of Greek pilots with serum analytes p 369 N93-32256 STAZHADZE, L. L.

Validation of the use of the helium-neon laser in the medical rehabilitation of patients with atrophy

p 289 A93-41306

STEEL, DUNCAN

Cometary supply of terrestrial organics - Lessons from the K/T and the present epoch p 109 A93-17981 STEELE, JOHN W. Space Station Water Processor - Current flight design

B-60

PERSONAL AUTHOR INDEX

STRIEPE, SCOTT A.

The application of filtration technology within the Water DNA topoisomerase V is a relative of eukaryotic STOTT, J. R. R. Processor on board Space Station Freedom topoisomerase I from a hyperthermophilic prokaryote Adaptation to nauseogenic motion stimuli and its ISAE PAPER 921270 p 300 A93-41440 p 399 A93-55580 application in the treatment of airsickness Space Station Condensing Heat Exchanger biofilm p 404 A93-55947 STEVENS, L. formation and control evaluation Functional adaptation of different rat skeletal muscles STOUT, R. W. ISAE PAPER 9213831 to weightlessness p 377 A93-49575 Viral hepatitis in the US Air Force, 1980 - 1989 p 308 A93-41541 STEVENSON, JOANN p 15 N93-11287 STEFFEN, JOSEPH M. Effects of spaceflight on the spermatogonial population Rat cardiovascular responses to whole body suspension STOVAL, J. MICHAEL p 329 A93-44935 of rat seminiferous epithelium - Head-down and non-head-down tilt p 37 A93-14974 Space biology initiative program definition review. Trade STEWART, D. F. study 5: Modification of existing hardware (COTS) versus new hardware build cost analysis p 207 N93-23069 Program development for exercise countermeasures Hepatitis A and Hepatitis B: Risks compared to other new hardware build cost analysis ISAF PAPER 9211401 p 292 A93-41327 Space biology initiative program definition review. Trade vaccine preventable diseases and immunization STEWART, DONALD F. p 15 N93-11288 study 4: Design modularity and commonality recommendations Medical concerns for exploration-class missions p 208 N93-23071 Recent lessons on the safety and effectiveness of p 386 A93-52409 Space biology initiative program definition review. Trade malaria chemoprophylaxis in a non-immune population Biomedical Monitoring and Countermeasures Facility p 19 N93-11307 study 3: Hardware miniaturization versus cost p 205 N93-22624 p 208 N93-23080 STEGEMANN, JUERGEN STICKEL MARK Higher capillary filtration rate in the calves of Space biology initiative program definition review. Trade Interpretation as abduction study 6: Space Station Freedom/spacelab modules endurance-trained subjects during orthostatic stress p 225 N93-24227 LAD-A2596081 p 401 A93-55165 compatibility STIEBER, MICHAEL p 209 N93-23081 | EEI-89-236 | Columbus payload requirements in human physiology A space manipulator with inertially fixed base? p 220 N93-24386 STOWE, RAYMOND P. [AIAA PAPER 93-3866] p 393 A93-51452 Kinetic tetrazolium microtiter assay STEIMLE, H. STIFFLER, JAMES A. p 82 N93-17049 Mir 1992 operations and crew training [NASA-CASE-MSC-21979-1] I-NIGHTS and beyond p 227 A93-30054 p 226 N93-24352 STILL, DAVID L. STOYCOS, LARA E. Contact lenses in aviation - The Marine Corps Anthropometric data from launch and entry suited test STEIN, F. Cerebral autoregulation in microgravity p 289 A93-41172 subjects for the design of a recumbent seating system p 321 N93-29044 p 173 N93-21112 STINMAN, ROBERT M. INASA-TM-1047691 Coordinated action in 3-D space STEIN, FLO STRAMLER, J. p 31 N93-10994 [AD-A249830] Occupational ergonomics in space p 68 N93-14013 Cerebral blood flow velocities by transcranial Doppler during parabolic flight STOCKER, U. STRATFORD, R. p 84 A93-17533 Significance of histological postmortem findings in pilots STEIN, T. P. Design guide for the ergonomic aspects of helicopter killed in military and civil aircraft accidents in German Effect of spaceflight on human protein metabolism crew seating (West): A 25-year-review p 126 N93-19697 IISVR-TR-2091 p 360 A93-47097 p 65 N93-13464 STODIECK, L. S. STRAUME, TORE STEINLAGE, R. C. Design and evaluation of a payload to support plant Molecular cytogenetics: A novel approach for measuring Quantification of human responses growth onboard COMET 1 p 340 N93-29564 chromosome translocations in individuals years after [SAE PAPER 921389] p 308 A93-41547 exposure to low levels of ionizing radiation STEINMAN, ROBERT M. STOIAN, MAURICA p 5 N93-10974 [DE92-018066] Coordinated action in 3-D space Fractures of the vertebral column after ejection STRAUSS. A. M. (AD-A261418) p 261 N93-26449 p 46 A93-15575 Bone loss and human adaptation to lunar gravity STENMARK, KURT R. STOILOVA, I. p 51 N93-14002 Functional and structural adaptation of the yak Sleep as a restorative process under extreme STRAUSS, ALVIN M. pulmonary circulation to residence at high altitude p 89 A93-18291 conditions Predicting skeletal adaptation in altered gravity nvironments p 213 A93-30772 p 326 A93-44181 STOKER, C. R. STENZEL, R. environments The possibility of life on Mars during a water-rich past A feasibility study of hand kinematics for EVA analysis The influence of military low-altitude flight noise on the p 196 A93-27887 using magnetic resonance imaging inner ear of the guinea pig. II - Scanning electron STOKES, JAMES M. D 298 A93-41423 p 377 A93-49556 |SAE PAPER 921253| micrographs Ocular attention-sensing interface system p 65 N93-13450 INASA-CR-1908841 Power assist EVA glove development STEPANIAN, E. B. | SAE PAPER 921255 | p 299 A93-41425 STOKLOSA, JANIS H. Changes in the brain blood flow and respiration during psychoemotional stress NASA/NSF Antarctic Science Working Group EVA Glove Research Team p 252 A93-36723 STEPANOV, V. K. p 81 N93-16802 [NASA-CR-193014] p 313 N93-27847 STOLKI, THOMAS J. A feasibility study of hand kinematics for EVA analysis Dynamics of electroencephalographic indices during The development and testing of a volatile organics using magnetic resonance imaging p 313 N93-27848 acute hypoxia p 402 A93-55333 STEPHENS, ROBERT L. concentrator for use in monitoring Space Station water A preliminary structural analysis of space-based inflatable tubular frame structures p 313 N93-27849 Effects of 2 mg and 4 mg atropine sulfate on the performance of U.S. Army helicopter pilots ISAE PAPER 921266) p 300 A93-41436 Power assist EVA glove development p 7 A93-10326 STOLLE, MICHAEL F. p 314 N93-27850 Visual illusions and other effects with night vision Hyperbaric treatment operations aboard Space Station STRAYER, DAVID L. p 230 A93-30072 Freedom Cognitive function at high altitude p 386 A93-52505 |SAE PAPER 921142| p 292 A93-41328 Effects of terfenadine and diphenhydramine on brain STREET, D. R., JR. activity and performance in a UH-60 flight simulator STONE, B. The unique contribution of selected personality tests to Respiratory changes and structure of sleep in young [AD-A258012] the prediction of success in naval pilot training high-altitude dwellers in the Andes of Peru Nutrition and hydration status of aircrew members p 132 N93-18291 LAD-A2581441 p 383 A93-49569 consuming the food packet, survival, general purpose, STREET, DAVID R., JR. STONE, LELAND S. improved during a simulated survival scenario The efficacy of biographical inventory data in predicting Human speed perception is contrast dependent early attrition in naval aviation officer candidate training IAD-A2587441 p 128 N93-20384 p 55 A93-14119 The use of electrophysiological and cognitive variables IAD-A2580251 p 131 N93-17919 Human speed perception is contrast dependent in the assessment of degradation during periods of The five-factor personality model and naval aviation p 174 A93-26950 sustained wakefulness candidates [AD-A263033] Effect of contrast on human speed perception [AD-A260227] p 225 N93-24319 p 283 N93-27923 [NASA-TM-103898] p 141 N93-19104 STEPHENSON, LOU A. STREET, J. J. STONE, LYDIA RAZRAN Validation of two temperature pill telemetry systems in Lunar base CELSS: A bioregenerative approach humans during moderate and strenuous exercise p 67 N93-13993 Digest of Russian Space Life Sciences, issue 33 INASA-CR-3922(39) | p 244 N93-25195 LAD-A2590681 p 124 N93-19072 STRETZKE, E. STONE, WILLIAM H. STERN, JOHN A. CEBAS-Aquarack: An artificial aquatic animal plant Enhanced performance using physiological feedback Effects of space radiation on humoral and cellular ecosystem as a tool for basic research in the Columbus [AD-A258006] immunity in rhesus monkeys p 130 N93-17816 p 210 N93-24401 Space Station LAD-AZÉ1BORI p 246 N93-26259 STREUBEL, SIEGFRIED STONEY, WILLIAM E. Aminohydroxybutane bisphosphonate and clenbuterol Instructions and advance training measures for the Cooperative intelligent robotics in space II; Proceedings improvement of human reliability prevent bone changes and retard muscle atrophy respectively in tail-suspended rats p 271 A93-39703 of the Meeting, Boston, MA, Nov. 12-14, 1991 IMBB-FE-313-S-PUB-05001 p 181 N93-21402 p 182 A93-27001 STERN ROBERT M ISPIE-16121 STRICKLIN, MARCELLA D. STORM, WILLIAM F. Physiological responses to wearing the space shuttle Effects of scopolamine on autonomic profiles underlying Subjective mood and fatigue of C-141 crew during Desert motion sickness susceptibility p 116 A93-24037 launch and entry suit and the prototype advanced crew p 370 N93-32264 Storm STERNBERG, SAUL escape suit compared to the unsuited condition C-141 aircrew sleep and fatigue during the Persian Gulf [NASA-TP-3297] p 149 N93-20319 The dynamics of visual representation, attention,

conflict

STORMSHAK F.

[DE92-017863]

the Persian Gulf conflict

p.342 N93-30543

p 151 A93-25821

p 243 A93-36559

encoding, and retrieval processes

Structure of a molecular chaperone from a thermophilic

Life in hot springs and hydrothermal vents

LAD-A2646741

STETTER, KARL O.

archaebacterium

p 371 N93-32265

p 371 N93-32268

p 43 N93-15211

Digital flight data as a measure of pilot performance

ssociated with fatigue from continuous operations during

Joint HVAC transmission EMF environmental study

p 218 N93-23734

p 28 A93-13288

Comparison of total body water estimates from O-18

Radiation exposure predictions for long-duration-stay

and bioelectrical response prediction equations

STRIEPE, SCOTT A.

Mars missions

[AIAA PAPER 92-4584]

STROFFOLINI, T. Radiation exposure predictions for short-duration stay Space biology initiative program definition review. Trade SULLIVAN, CHRISTOPHER Mars missions Insights into pilot situation awareness using verbal study 6: Space Station Freedom/spacelab modules AAS PAPER 924071 compatibility p 277 A93-39261 protocol analysis p 175 A93-27138 p 209 N93-23081 STROFFOLINI, T. EEI-89-236 | SULLIVAN, COLIN E. Dramatic reduction of meningococcal meningitis among Increased normoxic ventilation induced by repetitive SUVANTO, S. The prediction of the adaptation of circadian rhythms military recruits in Italy after introduction of specific hypoxia in conscious dogs p 79 A93-20037 p 18 N93-11303 p 278 A93-39714 to rapid time zone changes SULTANOV, F. F. STROMEYER, C. F., III SUVOROV. P. M. Effect of high temperature on the beta-adrenoreceptor The role of rheoencephalography in the practice of Colour is what the eye sees best p 159 A93-26245 activity and the catecholamine synthesis The effects of luminance boundaries on color p 160 A93-27649 p 39 A93-16750 perception SUZUKI, HAJIME SULZMAN, F. M. IAD-A2507051 p 22 N93-11841 Arterial oxygen saturation during +Gz acceleration by Thermoregulatory responses of rhesus monkeys during STROMEYER, H. p 379 A93-49178 short-radius centrifuge p 154 A93-28706 spaceflight Mir 1992 operations and crew training SUZUKI, HIROYUKI Effects of spaceflight on the musculoskeletal system p 226 N93-24352 Telescience testbedding for physiological experiments NIH and NASA future directions p 383 A93-49568 STROUP, T. under hypobaric hypoxic conditions p 220 N93-24398 SULZMAN, FRANK M. Crop interactions in polyculture and their implications SVENSSON, INDRA for CELSS design NASA plans and opportunities p 79 A93-20652 and radioactive cytotoxins Micro-organisms. |SAE PAPER 921197| SULZNER, MICHAEL preparation: Risks at rescue operations in hospital p 295 A93-41373 STRUCK JUERGEN Nucleotide-protectable tabeling of sulfhydryl groups in environment subunit I of the ATPase from Halobacterium p 359 N93-32423 [FOA-A-40065-4.5] Advanced cockpit-mission and image management p 201 A93-32116 saccharovorum p 144 N93-19760 SVETAILO, E. N. Comparison of membrane ATPases from extreme Data bank establishment principles as applied to the STUART, BRUCE O. Improved inhalation technology for setting safe exposure problem of physiological norms in space medicine halophiles isolated from ancient salt deposits p 243 A93-36557 p 249 A93-35234 levels for workplace chemicals p 174 N93-22164 STUART, C. A. SVIDERSKAIA, G. E. SUMMERFIELD, B. R. Alteration in human mononuclear leucocytes following Motor activity of animals under elevated pressure Kennedy Space Center environmental health program space flight p 75 A93-18290 p 165 A93-28705 p 166 A93-28713 STUART, MARK A. SVIRIAEV. V. I. Environmental monitoring and research at the John F. Adaptive strategies of remote systems operators Vagotropic effects of peptides isolated from the brain Kennedy Space Center p 154 A93-28714 exposed to perturbed camera-viewing condition of hibernating susliks p 38 A93-16749 SUN, BINGYONG p 187 A93-27155 SWAB, RODNEY E. Effects of acute hypoxia on intracranial dynamics in Methodology issues concerning the accuracy of Habitat automation p 33 N93-11976 p 326 A93-44177 unanesthetized goats kinematic data collection and analysis using the ariel SWAIN, JAMES H. SUN, HONGYUAN A prospective evaluation of stress fractures/overuse performance analysis system Application of system identification to research on NASA-CR-1856891 injuries in a population of West Point cadets p 34 N93-12211 p 3 A93-13544 cardiovascular regulative function p 13 N93-10709 STUCKY, RICHARD K. LAD-A252427 SUN. SHINEU SWALES, MICHAEL R. The earliest fossil evidence for sexual dimorphism in Hypoxic ventilatory responsiveness in Tibetan compared p 152 A93-27775 Helicopter night vision goggle testing in the United primates with Han residents of 3,658 m p 280 A93-41120 First skulls of the early Eocene primate Shoshonius Kingdom p 148 N93-19917 cooperi and the anthropoid-tarsier dichotomy Minimal hypoxic pulmonary hypertension in normal SWAMINATHAN, HARIHARAN p 202 A93-32670 Tibetans at 3.658 m p 280 A93-41121 Development of the Personnel-based System Evaluation Aid (PER-SEVAL) performance shaping functions Revision of the Wind River faunas, early Eocene of SUN. SIDNEY C. p 26 N93-11779 Wyoming. X - Bunophorus (Mammalia, The Centrifuge Facility Life Sciences Glovebox [AD-A252820] p 203 A93-33026 SWANSON, DAVID E. Artiodactyla) configuration study Revision of the Wind River faunas, early Eocene of [SAE PAPER 921158] p 293 A93-41341 Retinal modeling: Segmenting mo spatio-temporal inputs using neural networks motion from central Wyoming. IX - The oldest known hystricomorphous SUN, YA-ZHI [AD-A258854] p 125 N93-19369 rodent (Mammalia: Rodentia) p 328 A93-44903 The responses of cardiovascular during head-up tilt plus STUMP, CRAIG S. p 9 A93-11690 lower body negative pressure SWARSEN, RONALD J. Effects of insulin and exercise on rat hindlimb muscles SURUDA, A. J. Alcoholism and treatment in airline aviators - One after simulated microgravity p 78 A93-20036 Muscle glucose uptake in the rat after suspension with Fluorocarbon 113 exposure and cardiac dysrhythmias p 257 A93-35499 company's results among aerospace workers p 168 A93-28739 SWASDISON, SOMPORN single hindlimb weight bearing p 326 A93-44178 Spaceflight on STS-48 and earth-based unweighting SURVANSHI, S. S. Computer-aided mechanogenesis of skeletal muscle organs from single cells in vitro p 205 A93-33045 Statistically based decompression tables 8: Linear-exponential kinetics produce similar effects on skeletal muscle of young rats SWEENEY, MICHAEL A. p 326 A93-44179 p 120 N93-17926 AD-A257613| Carbonaceous chondrites and the origin of life STUPAKOV, G. P. Statistically based decompression tables. 7: Selection and treatment of primary air and N2O2 data p 412 A93-55997 Occupational health problems in aviation medicine IAD-A2590901 SWIERENGA, SARAH J. p 172 N93-20587 p 252 A93-36743 Human performance data visualization for system design The limits of human impact acceleration tolerance SUS, IRENE p 348 A93-42840 p 400 A93-52692 The aircraft position tests: A computer generated [AIAA PAPER 93-3572] STURGES, MICHAEL S. SWINDALE, N. V. process for acquisition of spatial orientation capability Alcoholism and treatment in airline aviators - One Spectral motion produces an auditory after-effect p 344 N93-31236 p 405 A93-55579 p 257 A93-35499 company's results SUSAK, LARK E. STURNER, W. Q. Study design for microgravity human physiology experiments p 118 A93-25208 Melatonin concentrations in the sudden infant death p 118 A93-25208 High-speed civil transport - Advanced flight deck p 203 A93-33030 challenges svndrome SUSLIN. V. P. STURT, R. M. V. [AIAA PAPER 92-4231] p 28 A93-13357 Radiation conditions onboard passenger aircraft Computer aided methods for simulating occupant p 249 A93-35230 SYLVIA, DAVID M. response to impact using OASYS DYNA3D SUTCLIFFE, J. G. The production and use of aeroponically grown inocula of VAM fungi in the native plant nursery p 142 N93-19666 Molecular approach to hypothalamic rhythms I AD-A264438] p 335 N93-30421 p 43 N93-15208 STUSTER, JACK [PB92-204973] Long-duration isolation and confinement: Human factors SUTHERLAND, LYNN SYMONS, J. D. issues and research requirements p 100 N93-16808 A monitoring and control system for complex Effects of sleep deprivation and exercise on glucose STYCZYNSKI, T. E. man-machine systems: Preliminary design p 281 A93-41165 Gray water recycling with a unique vapor compression p 70 N93-14951 SYMONS, J. M. distillation (VCD) design SUTTON, JOHN R. Use of sorption technology for treatment of humidity condensate for potable water [SAE PAPER 921318] p 304 A93-41480 Operation Everest II - Metabolic and hormonal responses to incremental exercise to exhaustion ISAE PAPER 9213121 p 303 A93-41474 p 115 A93-21685 Intramuscular pressure and electromyography as SYROMIATNIKOV, V. S. indexes of force during isokinetic exercise Minimal hypoxic pulmonary hypertension in normal Manipulator system for module redocking on the Mir p 380 A93-49291 p 280 A93-41121 Orbital Complex p 263 A93-35534 SUGIE. ISAMU SUTTON, STEWART A. SYRZYCKI, MAREK J. Hematological changes in space Advanced satellite workstation: An integrated p 46 A93-15528 Modelling and simulation of human retinal vision environments vorkstation environment for operational support of satellite SUGIYAMA, SHIGERU processing p 335 N93-30269 system planning and analysis p 33 N93-11941 SYSOEV. V. N. On the reaction of 2-aminopropionitrile in aqueous SUTTON, TERRY Changes in the brain blood flow and respiration during media p 354 A93-43791 Space biology initiative program definition review. Trade p 252 A93-36723 psychoemotional stress

study 5: Modification of existing hardware (COTS) versus

Space biology initiative program definition review. Trade

Space biology initiative program definition review. Trade

new hardware build cost analysis

study 4: Design modularity and commonality

study 3: Hardware miniaturization versus cost

p 207 N93-23069

p 208 N93-23071

p 208 N93-23080

SYTNIK, S. I.

Pharmacological means of stimulating the work capacity

Drugs for sustaining the work capacity of aircraft

p 45 A93-15173

p 253 A93-36745

of flight personnel engaged in stressful activity

personnel during extreme emotional stress

SUKACHOVA, O. O.

administration

SUKHANOV, IU. V.

The state of the endocrine system of rats of different

Investigation of fluid-electrolyte metabolism and its

hormonal regulation during the second joint Soviet-French

p 242 A93-35671

p 247 A93-35207

age under conditions of immobilization stress and biomos

SZEMZO, ATTILA

Some biochemical properties of an acyclic oligonucleotide analogue - A plausible ancestor of the p 269 A93-36560 DNA?

SZLYK, PATRICIA C.

Effect of protective clothing ensembles on artillery battery crew performance

IAD-A2543271 p 64 N93-12960

SZOSTAK, JACK W.

Selection of a ribozyme that functions as a superior template in a self-copying reaction p 111 A93-22053 Isolation of new ribozymes from a large pool of random p 400 A93-56548 sequences

TADDEO, B.

HIV variability and perspectives of a vaccine

p 16 N93-11294 TADROS, ALFRED H.

Space telerobotic research and applications at Space Systems/Loral

| AAS PAPER 91-046 | p 62 A93-15588

TAERNVIK. A.

Use of RNA hybridization in the diagnosis of a case of ulceroglandular tularemia

[FOA-B-40422-4.4] p 275 N93-28212

TAFFORIN, C.

Preliminary analysis of sensory disturbances and behavioral modifications of astronauts in space

p 130 A93-25207

TAGLIABUE, ALDO

Cytokines as vaccine adjuvants: Interleukin 1 and its synthetic peptide 163-171 p 20 N93-11309

TAILLANDIER, D.

Protein requirements in hypoxia or hypokinesia

p 368 N93-32244

TAIRBEKOV. M. G.

Ecological-morphological features of the growth and distribution of cultures of unicellular organisms in a p 241 A93-35248 gravitational field

TAIT. STEVEN

Design of a vibration isolation system for a cycle

ergometer to be used onboard the Space Shuttle p 138 N93-17970 [NASA-CR-192021]

TAJIMA. F.

Cardiovascular responses to upright tilt at a simulated altitude of 3,700 m in men p 212 A93-30281

TAJIMA, NAOKO

Mortality experience of cockpit crewmembers from Japan Airlines p 385 A93-52306

TAKADA, MASAHARU

Manned lunar surface site: Conceptual study on pressurized lunar surface operation rover

p 316 N93-28032

TAKAHASHI, KEIICHI Short-term microgravity to isolate graviperception in

p 111 A93-21901 cells TAKAHASHI, SHUUJI
Manned lunar surface site: Conceptual study on

pressurized lunar surface operation rover p 316 N93-28032 TAKAHASHI, TOSHIHARU

Flight crew sleep during multiple layover polar flights p 380 A93-49226

TAKAMI, MASAKAZU

Lunar surface experiment system p 316 N93-28034

TAKANO, YUKATA

Study on environment control and life support technology p 149 N93-20413

TAKANO, YUTAKA

Conceptual study on manned lunar surface site p 316 N93-28029

TAKASE, S.

TAKEDA, N.

Changes in vitamin A status following prolonged immobilization (simulated weightlessness) p 166 A93-28720

Neuropharmacology of motion sickness and emesis p 271 A93-39711 sinusoidal linear A review Motion sickness induced by p 272 A93-39712 cceleration in rats

TAKEOKA, M.

Effects of high altitudes on finger cooling test in Japanese and Tibetans at Qinghai Plateau

p 382 A93-49560

TAKEUCHI, TORU

Effects of head down tilt on hepatic circulation and p 80 A93-20899 metabolism in conscious dogs TAKEUCHI, YOSHINORI

Controllability of the voice command system - A reliminary study p 27 A93-11287 preliminary study

TAMPONNET, C.

European involvement in CELSS - Definition of a Closed Ecological Systems Test Bed

|SAE PAPER 921200| p 295 A93-41376 Implementation of biological elements in life support systems - Rationale and development milestones

p 390 A93-49302

p 27 A93-11201

Relationship between alcohol drinking habit and blood pressure changes during the period of 25 years on JASDF p 333 A93-45321 aged pilots

TAMURA, YOSHIHIRO

TAMURA, HIROHISA

Modification of water and electrolyte metabolism during head-down tilting by hypoglycemia in men

p 92 A93-20029

Recent regenerative ECLSS technology developments in Europe

|SAE PAPER 921332| p 304 A93-41493 TAN M N

Human performance and physiological function during 24-hr exposure to 1 percent bromotrifluoromethane p 277 A93-39704 (Halon 1301)

Toxicokinetics of inhaled bromotrifluoromethane (Halon 1301) in human subjects p 278 A93-39705 TANABE, MINORU

Effect of food intake on skin vasomotor responses to head-up tilt in humans p 379 A93-49180

TANAKA. KEIJI Design of a display system for a human pilot's

supervisory tasks

TANAKA, KIYOSHI Conceptual study of manned lunar surface site p 316 N93-28031

TANAKA, MASAKI

Optimal manipulator trajectories for space robots AAS PAPER 91-6691 p 410 A93-55838

TANAKA, WAYNE

Adaptive autonomous target cuer p 148 N93-19784 TANG, TOAN

Design of a radiator shade for testing in a simulated

lunar environment [NASA-CR-192080] p 108 N93-17710

TANGO, TOSHIRO

Mortality experience of cockpit crewmembers from p 385 A93-52306 Japan Airlines

TANKERSLEY, CLARKE

Cardiovascular responses to lower body negative pressure in trained and untrained older men

TANZI. E.

Vaccination against Hepatitis B: The Italian strategy

TARANOVA, N. P.

Dynamics of normalization of some behavioral and neurochemical disturbances in rats caused by the deprivation of the paradoxical sleep stage

p 111 A93-23074

TARASENKO, G. I. Subjective reactions and objective assessment of the auditory and ventilatory functions of the middle ear during changes in atmospheric pressure

TARASOV, I. K. Main medical results of extended flights on Space p 386 A93-52401 Station Mir in 1986-1990

TARR. MICHAEL J.

Representations of shape in object recognition and long-term visual memory [AD-A264342]

p 341 N93-30163

TARRIERE, C.

Contribution of the analysis of ocular (complementary to the electroencephalographic analysis) to the detection of low vigilance in instances of piloting a vehicle

TARRIERE, CLAUDE

The influence of individual sensivity to stress on the behavior (attitude and performance) of avoidance of an accident p 134 N93-19705

TARUI, HIDEO

The effect of G-experience on heart rate during +Gz p 333 A93-45322 loading

TASEVOLI, MICHAEL

Safety issues of manipulator systems under computer control p 192 A93-29121

TASK, H. LEE

Armstrong Laboratory space visual function tester p 284 N93-28739 program Effect of microgravity on several visual functions during STS Shuttle missions: Visual Function Tester-Model 1 p 284 N93-28740 (VFT-1)

Effect of microgravity on visual contrast threshold during STS Shuttle missions: Visual Function Tester-Model 2 p 284 N93-28741

Effect of microgravity on the visual near point: Visual Function Tester-Model 4 (VFT-4) p 284 N93-28742 TASSIOS, DIMITRIOS P.

|SAE PAPER 921269|

Applied chemical engineering thermodynamics IISBN 0-387-54759-21 p 357 A93-46075

TATARA, JAMES D.

The analytical control program for the NASA Space Station Freedom Environmental Control and Life Support System (ECLSS) Water Recovery Test

TATAUROV, A. IU.

Human biorhythms following interregional travel (with reference to Novosibirsk-Vladivostok flights)

p 300 A93-41439

TATE, ISAO

Manned lunar surface site: Conceptual study on pressurized lunar surface operation rover p 316 N93-28032

Carotid-cardiac baroreflex response and LBNP tolerance p 164 A93-28696 following resistance training

TATSUOKA, KIKUMI K.

A psychometrically sound cognitive diagnostic model: Effect of remediation as empirical validity

p 52 N93-14109 IAD-A2559261

TATSUOKA, MAURICE M.
A psychometrically sound cognitive diagnostic model: Effect of remediation as empirical validity p 52 N93-14109 [AD-A255926]

TAYLOR, G.

Intraocular pressure and retinal vascular changes during transient exposure to microgravity p 278 A93-39710

TAYLOR, G. R. In vivo testing confirms a blunting of the human cell-mediated immune mechanism during space flight

p 167 A93-28732 The clinical chemistry and immunology of long-duration p 169 A93-28754

TAYLOR, GERALD R.

The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network p 258 N93-25595 (BRAIN)

TAYLOR, HENRY L. The effect of wearing protective chemical warfare

combat clothing on human performance p 230 A93-30287 The effects of wearing protective chemical warfare

combat clothing on human performance p 35 N93-12491

[AD-A250716] TAYLOR, JOY

The time-course of alcohol impairment of general aviation pilot performance in a Frasca 141 simulator

p 384 A93-52299

TAYLOR, KEVIN M. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21)

AD-A253393]

TAYLOR, M. M. Principles for integrating voice I/O in a complex interface p 146 N93-19774

p 30 N93-10217

p 69 N93-14520

TAYLOR, R. M.

Workload or situational awareness? TLX vs. SART for aerospace systems design evaluation

p 175 A93-27139 Operator and automation capability analysis: Picking the p 319 N93-28864

right team TAYLOR, RICHARD L. S.

The effects of prolonged weightlessness and reduced gravity environments on human survival

p 214 A93-30773

TAYLOR, ROBERT The human-electronic crew: Is the team maturing? The nd Joint GAF/RAF/USAF Workshop on 2nd

Human-Electronic Crew Teamwork IAD-A2561921

TEACHOUT, MARK S. Determinants of performance rating accuracy: A field

study [AD-A264726] p 342 N93-30575

TEBEN'KOV, A. M.

Autorosette formation in the peripheral blood of people with lengthy limitations of motor activity

p 250 A93-35245

TEENAN, R. P.

Peripheral arterial thrombosis related to commercial airline flights - Another manifestation of the economy class p 215 A93-32775 syndrome

TEÉTER, RONALD

Digest of Russian Space Life Sciences, issue 33 [NASA-CR-3922(39)] p 244 N93-2 p 244 N93-25195

TEETER, RONALD C.

NASA's manned space flight program [AAS PAPER 91-626] p p 402 A93-55805 TEIWES, W.

Dynamic analysis of ocular torsion in parabolic flight p 386 A93-52405 using video-oculography

TEJADA, F. RIOS

Survey of smoking habits in the Spanish Air Force p 370 N93-32262

TEJEDA, M. R. DURAN

An epidemiological study in SAF's pilots ejections p 143 N93-19699

TEJEDA, MA DEL ROSARIO DURAN

Objective improvements obtained by control of diet and physical training in Spanish Air Force fighter pilots p 369 N93-32258

TEKEUCHI, YOSHINORI

Respiration curves as an index of pilot workload p 332 A93-45320

TEMME, L. A. Toward the ideal military aviation sunglass

AD-A2582001 p 140 N93-18200

TEMME, LEONARD A.

The detection of lateral motion by US Navy jet pilots AD-A2581151 p 120 N93-17896

TEMOSHOK, LYDIA

Measuring performance decrements in aviation personnel infected with the human immunodeficiency

TEMPLETON, WILLIAM

Potential health risks from postulated accidents involving the Pu-238 RTG on the Ulysses solar exploration mission p 43 A93-13774

TEN HARKEL, A. D. Increased orthostatic blood pressure variability after

Drolonged head-down tilt p 161 A93-28676 Influence of posture and prolonged head-down tilt on p 161 A93-28677 cardiovascular reflexes Cardiovascular response to lower body negative pressure before, during, and after ten days head-down tilt bedreet p 162 A93-28681 Cardiopulmonary function during 10 days of head-down tilt bedrest p 162 A93-28683

TENG. YULYING

Windblast tolerance of human thorax and abdomen p 91 A93-19992

TENNAKONE, K.

Chiral symmetry breaking in nonlinear autocatalytic reactions and the effect of external noise

p 269 A93-36564

TERADA, NOBUYUKI Effects of head down tilt on hepatic circulation and

metabolism in conscious dogs p 80 A93-20899 TERESHKIN, A. A. A method for predicting the work load of a flight engineer

engaged in counteracting failures of functional systems p 364 A93-45688 of a transport aircraft TERNOVOJ, V. A.

Changes in the phospholipid and cholesterol content of rat tissues during adaptation to high altitude at different environmental temperatures p 358 A93-47100 TEZOV, A. A.

Features of the effect of hypokinesia on cardiac activity in rats with high and low spontaneous motor activity p 240 A93-35224

THAGARD, NORMAN E.

Electronystagmography and audio potentials in space p 9 A93-11675

THALMANN, E. D.

performance

Statistically based decompression Linear-exponential kinetics [AD-A257613] n 120 N93-17926

Statistically based decompression tables, 7: Selection and treatment of primary air and N2O2 data [AD-A259090] p 172 N93-20587

THARP, G.

Visual search in virtual environments

p 233 A93-33450 THARP, GREGORY

Depth cue interaction in telepresence and simulated telemanipulation p 232 A93-33446 Timing considerations of Helmet Mounted Display p 233 A93-33449

THARP, GREGORY K. Exocentric judgements in real environments and stereoscopic displays p 189 A93-27190

THEEUWES, J. A spurious pop-out in visual search

p 57 N93-14267 THEIN, BRENDA

CREWCUT - A tool for modeling the effects of high p 178 A93-27180 workload on human performance THEIS, RONALD L. A.

Consumables and wastes estimations for the First Lunar

ISAE PAPER 9212871 p 302 A93-41453 Regenerative life support technology challenges for the Space Exploration Initiative p 346 A93-42128

THILLY, W. G. Comparative mutagenesis of human cells in vivo and

IDE93-0122691 p 276 N93-28651 THOMAS, D. P.

Myosin heavy chain composition in the rat diaphragm Effect of age and exercise training p 37 A93-14970 THOMAS, G. B.

An automated version of the dichotic listening test: Hardware, software, and procedural details

[AD-A258114] p 120 N93-17895 THOMAS, JOHN R.

An assessment of peripheral nerve damage in the rat non-freezing cold exposure: electrophysiological and histopathological examination IAD-A2642931 p 331 N93-30818

Controlled Ecological Life Support System (CELSS) p 137 A93-25308 OCAM - A CELSS modeling tool: Description and

recults ISAE PAPER 921241 p 298 A93-41413

THOMAS, PAUL J.

Comets and the origins and evolution of life: Proceedings of the Conference, Univ. of Wisconsin, Eau Claire, Sept. p 109 A93-17976 30-Oct. 2, 1991

THOMAS, W. G.

Electronystagmography and audio potentials in space p 9 A93-11675

THOMASSEN, DAVID G.

Understanding mechanisms of carcinogenesis using rat tracheal epithelial cells in vitro

IDE92-0135101 p 13 N93-10626

THOME, RICHARD J.

The effect of type of task, degree of integration, and modality on the performance of concurrent tasks

p 175 A93-27140

THOMPSON A. B.

An integrated human/plant metabolic mass balance p 347 A93-42130 THOMPSON, J.

Joint HVAC transmission EMF environmental study

p 43 N93-15211 IDF92-0178631 THOMPSON, JOHN

Catalytic oxidation for treatment of ECLSS and PMMS waste streams

[SAE PAPER 921274] p 301 A93-41443 THOMPSON, PETER

Human speed perception is contrast dependent

p 55 A93-14119 Human speed perception is contrast dependent

p 174 A93-26950 Effect of contrast on human speed perception p 141 N93-19104 INASA-TM-1038981

THONNARD, JEAN-LOUIS

Development of the Hermes EVA Space Suit Glove ISAF PAPER 9212561 p 299 A93-41426 THORNTON, R.

The physiological consequences of simulated helicopter flight in NBC protective equipment p 117 A93-24049

An evaluation of crew coordination and performance during a simulated UH-60 helicopter mission p 35 N93-12509 AD-A2549841

THORNTON, ROBERT

The relationship between environmental conditions and UH-60 cockpit temperature

p 69 N93-14090 IAD-A2559181 Effects on physiology and performance of wearing the aviator NBC ensemble while flying the UH-60 helicopter

flight simulator in a controlled heat environment p 235 N93-23995 [AD-A259909] The effects of cockpit heat on aviator sleep

parameters THORNTON, ROBERT J.

Effects of microclimate cooling on physiology and erformance while flying the UH-60 helicopter simulator in NBC conditions in a controlled heat environment p 129 N93-20400

THORNTON, WILLIAM E.

Electronystagmography and audio potentials in space p 9 A93-11675 TIAN. T. C.

The dynamic mathematical model and digital simulation of the environmental control system p 61 A93-14319 TIRRITTS T. W.

A matrix-based porous tube water and nutrient delivery p 309 A93-41548 ISAE PAPER 9213901

Scenarios for optimizing potato productivity in a lunar CFLSS. p 67 N93-13997 Potential of derived lunar volatiles for life support p 67 N93-13998

TIERNEY, JOSEPH

Programmable interactive system for cochlear implant ectrode stimulation p 333 N93-29421 I AD-A262558 I

TIKHONCHUK, V. S.

Microwaves and the visual analyzer p 250 A93-35247

Features of an ethanol effect in operators with different p 250 A93-35252 states of skin tissue basophils

TILLEY SCOTT W

Space telerobotic research and applications at Space Systems/Loral

IAAS PAPER 91-046 TILLOTSON BRIAN

p 62 A93-15588

TRIALSS - Tool for Rapid and Intelligent Advanced Life Support System Selection and Sizing

n 291 A93-41315 ISAF PAPER 9211231

TIMOFEEVA, I. V.

Peroxidative oxidation of lipids and chromosome aberrations in mice after repeated exposures to a helium-oxygen respiration mixture under hyperbaric p 243 A93-35672

TIMOSHENKO, T. F.

On a possible role of carbon dioxide in the genesis of p 200 A93-31190 the hyperbaric neural syndrome

TINGLE, TRACY N.

The fate or organic matter during planetary accretion studies of the organic chemistry of Preliminary experimentally shocked Murchison meteorite

p 110 A93-17984 Formation of reduced carbonaceous matter in basalts and xenoliths - Reaction of C-O-H gases on ofivine crack p 411 A93-53286

TINKLENBERG, J.

Influence of aging and practice on piloting tasks

p 286 A93-39708

TINKLENBERG, JARED

The time-course of alcohol impairment of general aviation pilot performance in a Frasca 141 simulator p 384 A93-52299

TIPTON, CHARLES M.

Effects of insulin and exercise on rat hindlimb muscles p 78 A93-20036 after simulated microgravity p 78 A93-20036 Influence of simulated microgravity on the maximal oxygen consumption of nontrained and trained rats

p 323 A93-42192 Muscle glucose uptake in the rat after suspension with p 326 A93-44178 single hindlimb weight bearing TIPTON, D. A.

Health services at the Kennedy Space Center

p 154 A93-28711 Emergency medical operations at Kennedy Space Center in support of space shuttle p 166 A93-28712 Kennedy Space Center environmental health program p 166 A93-28713

TIRRANEN, L. S.

Effects of possible pollution sources of the atmosphere of a closed ecosystem on the growth of p 101 A93-18418 microorganisms

TISCHLER, MARC E.

Spaceflight on STS-48 and earth-based unweighting produce similar effects on skeletal muscle of young rats p 326 A93-44179

TITOVA, G. T.

Effects of possible pollution sources of the atmosphere of a closed ecosystem on the growth of p 101 A93-18418 microorganisms

various

p 76 A93-18296

TIUL'KOVA, E. I. Polyphosphoinositide response to

neurotransmitters after an exposure to a helium-oxygen atmosphere at a high pressure

TLEIMAT, B. W. Gray water recycling with a unique vapor compression distillation (VCD) design

ISAE PAPER 9213181 p 304 A93-41480 TLEIMAT, M. C.

Gray water recycling with a unique vapor compression distillation (VCD) design [SAE PAPER 921318] p 304 A93-41480

TOBACK, A. C.

Skin care in the space environment p 170 A93-28756

TOBEY, WAYNE K. Air Traffic Control facility lighting p 188 A93-27167

TOBOLIN, S. N. A modified method for investigating gastric secretion

in aviation medical examination p 359 A93-45692 TODA, YOSHITSUGU

Research of a free-flying telerobot. IV - Development of dual-arm manipulation system p 411 A93-56254 Skill compensation and dynamic coupling of acro/smart effector system p 411 A93-56260

macro/smart effector system TODA. YOSHITUGU

Research of a free-flying telerobot. V - Handling a target with multi-arms p 411 A93-56255

TODD, JAMES T.

Visual perception of structure from motion

[AD-A253235] p 26 N93-11503

TODD, P. W.

Effects of spaceflight on the musculoskeletal system p 383 A93-49568 NIH and NASA future directions

TODD PAUL

Clinostats and centrifuges: Their use, value, and limitations in gravitational biological research, Symposium, Washington, Oct. 19, 1991, Report p 375 A93-49206

TOFF, W. D.

p 215 A93-32778 Cardiac pacing and aviation TOME, TANIA

Chiral-symmetry-breaking in nonequilibrium chemical systems - The racemization influence

p 269 A93-36563

TOMKO, DAVID L. Linear vestibuloocular reflex during motion along axes between nasooccipital and interaural

p 203 A93-32773

TOMS, MONA L.

Effects of display luminance on the recognition of color symbols on similar color backgrounds

n 189 A93-27191

p 82 N93-17189

p 316 N93-28033

TONG. BO-LUN

Changes of cAMP and cGMP content in plasma and urine before and after parallel swing stimulation

p 213 A93-30435

Primary charge separation in isolated photosystem 2 reaction centers

[DE92-041128]

TORIL HIROYUKI

Manned lunar surface site

TORRIGIANI, G. Communicable diseases: A major burden of morbidity

p 18 N93-11300 and mortality

TOURFTZKY, DAVID S.

Connectionist models linguistic theory: Investigations of stress systems in language [4D-4265450] p 364 N93-32064

TOWNSEND, L. W.

Track structure model for damage to mammalian cell cultures during solar proton events p 75 A93-18073 Human exposure to galactic cosmic rays in space

p 410 A93-54887

TOWNSEND, LAWRENCE W.
Radiation exposure and dose estimates for a nuclear-powered manned Mars sprint mission
p 60 A93-13817

Interplanetary crew exposure estimates for galactic A93-17975 cosmic rays p 87

Target fragmentation in radiobiology INASA-TM-44081 p 124 N93-18381

TOYOTA, DEBORAH A.

Validation of two temperature pill telemetry systems in humans during moderate and strenuous exercis [AD-A259068] p 124 N93-19072

TRABANINO, RUDY

The development and testing of a volatile organics concentrator for use in monitoring Space Station water quality

[SAE PAPER 921266]

p 300 A93-41436 TRAMBOVETSKII, E. V. Hemodynamics in monkeys during antiorthostatic

hypokinesia at angles of -6 and -20 deg p 241 A93-35259

TRAMONT, E. C.

Relating cognitive function to military aviator performance in early HIV infection p 17 N93-11298

TRAMONT, EDMUND C.

AIDS/HIV in the US Military p 16 N93-11291

TRAN, PHILIP

SHARC: Space Habitat, Assembly and Repair Center [NASA-CR-192031] p 140 N93-18153 TRANSMONTANO, J.

Response of adrenergic receptors to 10 days head-dow p 162 A93-28679 tilt bedrest

TRAPP. S.

Anatomy and physiology of plant conductive systems [PB93-156032] p 245 N93-25877

TRAUBE, E. C. Discomfort glare from high-intensity discharge

headlamps: Effects of context and experience [PB93-174720] p 336 p 336 N93-30659

TRAUSCH, STEPHANIE V.

Performance evaluation of candidate space suit elements for the next generation orbital EMU

|SAE PAPER 921344 | p 305 A93-41503 TREDICI G

Long-lasting neuropsychological changes after a single p 278 A93-39713 high altitude climb TREDICI, THOMAS J.

Night vision manual for the flight surgeon

IAD-A2570591 p 104 N93-15710 TREVINO, MAURICE

Design of a vibration isolation system for a cycle ergometer to be used onboard the Space Shuttle p 138 N93-17970 INASA-CR-1920211

TREVINO, ROBERT

EVA operational guidelines and considerations for use during the Space Station Freedom design review p 345 A93-42119

TRINH, TINH T.

Method for culturing mammalian cells in a horizontally rotated bioreactor INASA-CASE-MSC-21294-21

TRIPP, LLOYD D., JR.

n.5 N93-10110

Cerebral blood flow during +Gz acceleration as measured by transcranial Doppler p 84 A93-17532 TRISTAN, V. G.

K.E. Tsiolkovsky on individual time perception and some characteristics of intuitive perception of the properties of time at different levels of motor activity and health p 98 A93-18413

TROCHERIE S.

Evaluation of zolpidem on alertness and psychomotor abilities among aviation ground personnel and pilots p 401 A93-55163

TROSHIKHIN, G. V.

Gas composition in the blood of rabbits exposed to a high-pressure atmosphere under conditions of spontaneous and forced ventilation p 77 A93-18301 TRUJILLO, ANNA C.

The effects of history and predictive information on the ability of the transport aircraft pilot to predict an aler p 365 A93-46810

TRUZHENNIKOV, A. N.

Oxygen regime in the frontal cerebral cortex of monke during a two-week space flight p 272 A93-40773

Changes in food and energy intake in military aircre p 368 N93-32246

Respiratory changes and structure of sleep in young high-altitude dwellers in the Andes of Peru p 383 A93-49569

TSANG, IAN K. Y.

Study design for microgravity human physiology

TSANG, PAMELA S.

A reappraisal of aging and pilot performance p 56 A93-15663

TSAO, D. TEH-WEI

Development of physical and mathematical models for the Porous Ceramic Tube Plant Nutrification System (PCTPNS)

p 4 N93-10085

[NASA-TM-107551]

TSCHAN, K. H. Development and implementation of the MotoMir

experiment on the Mir Space Station p 220 N93-24363

TSIMBALISTOVA, E. A.

Investigation of hemodynamics and sympatheticoadrenal system activity in air traffic controllers during their work p 247 A93-35209

TSO, KAM S.

An operator interface design for a telerobotic inspection I AIAA PAPER 93-1160 I p 231 A93-31034

Remote surface inspection system

p 410 A93-55469

TSODYKS, M. V.

Conversion of temporal correlations between stimuli to spatial correlations between attractors [PREPRINT-856] p 96 N93-16962

Effective neurons and attractor neural networks in cortical environment [PREPRINT-829] p 82 N93-17214

TSUCHIDA, M. S.

Space biology initiative program definition review. Trade study 1: Automation costs versus crew utilization p 208 N93-23070

TSYBENKO, V. A.

Changes in the central hemodynamics under antiorthostasis in humans with different blood circulation p 359 A93-46967 types and physical training levels TUBOL'TSEV, S. V.

LAD-A2598871

Engineering and technical support of experiments on board the Cosmos-2044 biosatellite p 77 A93-18419 TUCK, S.

AFTERRISE: Deep body temperature following p 218 N93-23984

TUCKER, ALAN

Heart and lung alterations in neonatal rats exposed to CO or high altitude p 77 A93-20027

TUCKER, B. J. Direct measurement of capillary blood pressure in the

p 279 A93-40550 human lip TULBAEVA, F. P.

Parameters of external breathing in an excess-pressure atmosphere p 76 A93-18298

TULP, MARTIN TH. M.
Idaverine, an M2- vs. M3-selective muscarinic antagonist, does not prevent motion sickness in cats p 327 A93-44878

TUOMALA,B.

The influence of dietary counseling and cardiac catheterization on lipid profiles in American military p 369 N93-32259

TURANO, KATHLEEN

Visual psychophysics of egomotion [AD-A248349] p 26 N93-11488

TURBASOV, V. D.

Cardiac bioelectric activity in healthy men during a 370-day head-down tilt experiment p 247 A93-35208 Functional state of the cardiovascular system of the cosmonauts of the sixth primary mission on the Mir p 249 A93-35238

TURCHANINOVA, V. F.

Functional state of the cardiovascular system of the cosmonauts of the sixth primary mission on the Mir p 249 A93-35238

TURNAGE, JANET J.

An individual differences approach to fitness-for-duty p 178 A93-27178 assessment

TURNER, M. G.

Scaling issues for biodiversity protection IDF92-0166891 p 6 N93-12315

TUSCHL, H.

Influence of microgravity on immune system and genetic p 160 A93-26572 information Influence of microgravity on immune system and genetic p 220 N93-24370 information

TUTT, CHRIS

SHARC: Space Habitat, Assembly and Repair Center p 140 N93-18153 [NASA-CR-192031]

TYAGI, A. K.
Changes in body fluid compartments during hypohydration and rehydration in heat-acclimated tropical p 251 A93-35496

TYBURCZY, JAMES A.

The fate or organic matter during planetary accretion - Preliminary studies of the organic chemistry of experimentally shocked Murchison meteorite

p 110 A93-17984

p 19 N93-11306

TYPKE, DIETER

Structure of a molecular chaperone from a thermophilic archaebacterium p 151 A93-25821

UBERTINI, T. R.

Studies of safety, infectivity, and immunogenicity of a new Temperature Sensitive (TS) 51-1 strain of S. typhi as a new live oral typhoid fever vaccine candidate

UEADA, S.

Research and development of sensing and manipulation techniques for space robotics on a testbed [AIAA PAPER 93-0794] p 136 p 136 A93-24873 UEDA, G.

Effects of high altitudes on finger cooling test in Japanese and Tibetans at Qinghai Plateau p 382 A93-49560

UEDA, GOU Thermogenesis induced by inhibition of shivering during cold exposure in exercise-trained rats

p 75 A93-18039

UENO, SEIYA Optimal manipulator trajectories for space robots [AAS PAPER 91-669] p 410 A93-

p 410 A93-55838 UENOHARA, MICHIHIRO Research of a free-flying telerobot. IV - Development of dual-arm manipulation system p 411 A93-56254

UIJTDEHAAGE, SEBASTIAN H. J. Effects of scopolamine on autonomic profiles underlying

motion sickness susceptibility p 116 A93-24037 UKETA, YOSHIE

Effect of food intake on skin vasomotor responses to p 379 A93-49180 head-up tilt in humans

ULIANO, KEVIN C.

Training high performance skills using above real-time training

[NASA-CR-192616] p 225 N93-24192

UNGAR, EUGENE K.

Design of a Shuttle air and water prefilter for reduced n 294 A93-41343

ISAF PAPER 9211611 UNGS, TIMOTHY J.

Safety concerns as a factor in pilot desire to change p 129 A93-24040 aircraft

UPADHYE, R. S.

Incineration for resource recovery in a closed ecological life support system p 409 A93-54826 URBANI, L.

The screening of inhalant allergic diseases in the selection of candidates for aircraft piloting
p 21 N93-11312

Cardiovascular risk factors in an Italian Air Force population: Preliminary report p 362 N93-32252 URBANI, LUCA

Idiopathic Reactive Hypoglycemia in a population of healthy trainees of an Italian Air Force military school p 368 N93-32248

URLINGS, P. J. M.

URSIN, HOLGER

Overview of cockpit technology research and development programs for improvement of the man/machine interface: Review of the AGARD AVP Symposium held in Madrid, May 1992

p 320 N93-28872

The psychological effects of isolation on a space station A simulation study

[SAE PAPER 921191] p 287 A93-41369 USENKO, G. A.

Psychosomatic status and flying skill during geomagnetic

p 257 A93-35251 USHAKOV, I. B.

Pharmacological defense of the brain during radiation damage - Some arguments p 240 A93-35217 Microwaves and the visual analyzer

p 250 A93-35247 Features of an ethanol effect in operators with different states of skin tissue basophils p 250 A93-35252 Early andrological effects in rats under the combined effect of irradiation and vibration p 242 A93-35263 USOV. V. M.

Computerized teaching of pilots to spatial orientation flight tasks p 404 A93-52694

UTELL, MARK J.

NASA Specialized Center for Research and Training (NSCORT) in space environmental health

[SAE PAPER 921358] p 307 A93-41517

UTSUKI, NARISUKE

A computer simulation model for attention distribution and event generation p 340 A93-45323 UTSUKI, NARUSUKE

Controllability of the voice command system - A preliminary study p 27 A93-11287

VACANTI, C. A.

Effects of running the Bostom Marathon on plasma concentrations of large neutral amino acids

p 160 A93-27048 VADLAMUDI, BABU

Cell wall and enzyme changes during the graviresponse of the leaf-sheath pulvinus of oat (Avena sativa)

p 329 A93-44941

VAERNES, RAGNAR J.

The psychological effects of isolation on a space station p 287 A93-41369 ISAE PAPER 9211911

VAILAS, A.

Combined strength and endurance training: Functional and morphological adaptations to ten weeks of training p 267 N93-26229 1AD-A2610591

VAILAS, ARTHUR C.

Myosin heavy chain composition in the rat diaphragm Effect of age and exercise training p 37 A93-14970 VALETON, J. M.

High-resolution contrast control on a video display: Method and calibration

IAD-A2565521 p 60 N93-15400

VALLERAND, A. L.

Influence of the Cold Buster (tm) sports bar on heat debt, mobilization and oxidation of energy substrates p 285 N93-28939 1AD-A2627621

VAN BELZEN, N.

Inhibition of EGF-induced signal transduction by microgravity is independent of EGF receptor redistribution in the plasma membrane of human A431 cells

p 272 A93-39715

VAN CHARLDORP, KARIN J.

Idaverine, an M2- vs. M3-selective muscarinic antagonist, does not prevent motion sickness in cats p 327 A93-44878

VAN DE LINDE, F. J. G.

Comparison of four noninvasive rewarming methods for p 88 A93-18037 mild hypothermia

VAN DER HOEK, J.

Suction-cup shoes for astronauts - A new method of p 62 A93-17072 foot restraint

VAN DER STEEN, HAN F. A. M. False cue detection thresholds in flight simulation p 407 A93-52674 [AIAA PAPER 93-3578]

VAN DER VAART, J. C.

What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment IAIAA PAPER 93-3561 | p 406 A93-52661

VAN HOOGSTRATEN, W.

Suction-cup shoes for astronauts - A new method of foot restraint p 62 A93-17072

VAN LIEW, HUGH D.

Failure of the straight-line DCS boundary extrapolated to the hypobaric realm p 47 A93-16154 VAN LOON, G.

Drug effects on orthostatic intolerance induced by bedrest p 86 A93-17544 VAN OOSTRUM, J.

Studies towards the crystallization of the rod visual pigment rhodopsin p 1 A93-11150 VAN VACTOR DAVID

Emergence of telerobotic control enhancement from research in machine autonomy p 183 A93-27028 VANCUTSEM C

Allergy screening and follow-up in student pilots of the Belgian Air Force (BAF) p 21 N93-11316 VANDENBOSCH, P.

Allergy screening and follow-up in student pilots of the p 21 N93-11316 Belgian Air Force (BAF) Biological parameters and cardiovascular risk factors with the flying personnel of the Belgian Armed Forces p 370 N93-32260

VANDENBURGH, H. H.

Mechanically induced alterations in cultured skeletal p 202 A93-32749

VANDENBURGH, HERMAN H.

Mechanical forces and their second messengers in p 204 A93-33043 stimulating cell growth in vitro Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis

[NASA-CR-193040] p 222 N93-24763 Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism

INASA-CR-193041] p 282 N93-27102 Growth factor involvement in tension-induced skeletal

muscle growth [NASA-CR-193023]

p 282 N93-27113 VANDERBEEK, RICHARD G.

Silicon neuron

LAD-A2550911 p 50 N93-12756

VANDERBURGH, HERMAN H. Computer-aided mechanogenesis of skeletal muscle

p 205 A93-33045 organs from single cells in vitro VANERP-BAART, A, M. J.

An automated processing system for food frequency and p 367 N93-32241 nutrition knowledge questionnaire

VANHARANTA, HĚIKKI Determinants of + Gz-related neck pain - A preliminary p 380 A93-49227

Degeneration of cervical intervertebral disks in fighter pilots frequently exposed to high +Gz forces

p 384 A93-52298 VANHELDER, T.

Effects of sleep deprivation and exercise on glucose p 281 A93-41165

VANHULSTEYN. D. Functional MRI studies of human vision on a clinical

IDF92-0174481 p 49 N93-12566

VANINGEN-DUNN, CAROLINE Improving manikin biofidelity p 142 N93-19668 VANNI. R.

Studies of safety, infectivity, and immunogenicity of a new Temperature Sensitive (TS) 51-1 strain of S. typhi as a new live oral typhoid fever vaccine candidate

VANNIASINKAM, JOSEPH

p 19 N93-11306 Conceptual design of a thermal control system for an

inflatable lunar habitat module

INASA-CR-1920141 p 140 N93-18113 VANO, JOSE IGNACIO PERALBA

Trial of emergency ration of the Spanish Air Force p 368 N93-32247 VARDAMAN, JENNIFER J.

Response to automated function failure cue - An operational measure of complacency p 176 A93-27147

VARNAVAS, KOSTA

Platform stair lift p 353 N93-29845 [NASA-CASE-MFS-28772-1]

VARNER, DENISE C.

Visual scene effects on the somatogravic illusion p 88 A93-18035

VARTANYAN, L. S.

Changes in the intensity of free-radical reactions in the organs of rats under hypokinetic stress, protected by the delta-sleep-inducing peptide and its tyrosine-containing p 378 A93-51101

VAS'KOVSKII, B. V.

Vagotropic effects of peptides isolated from the brain p 38 A93-16749 of hibernating susliks

VASIL'EV, A. YU.

New technology for the analysis of the results of an ultrasound experiment performed in aviation-medicine medical examination p 279 A93-40774 VASIL'EV. P. V.

Pharmacological means of stimulating the work capacity of flight personnel engaged in stressful activity

p 45 A93-15173 Drugs for sustaining the work capacity of aircraft personnel during extreme emotional stress

p 253 A93-36745 VASQUEZ, M.

Effects of spaceflight on the spermatogonial population of rat seminiferous epithelium p 329 A93-44935 VASSAUX, DIDIER

Norepinephrine content in discrete brain areas and neurohypophysial vasopressin in rats after a 9-d spaceflight (SLS-1) p 273 A93-41167

VASTESAEGER, J.-P.

Biological parameters and cardiovascular risk factors with the flying personnel of the Belgian Armed Forces p 370 N93-32260

VAUDRY, H.

VATSEK, A. Oxygen regime in the frontal cerebral cortex of monkeys p 27£ A93-40773 during a two-week space flight

Immunocytochemical localization of atrial natriuretic factor (ANF)-like peptides in the brain and heart of the treefrog Hyla japonica - Effect of weightlessness on the distribution of immunoreactive neurons and cardiocytes p 377 A93-49561

VAUGHAN, DAVID S.

Introduction to training decisions modeling technologies: The training decisions system

[AD-A249862] p 27 N93-12252

VAVAKIN, IU. N.

Effect of stays at medium-mountain attitude on the maintenance of the good health and high physical work capacity of cosmonauts over a prolonged period of time p 250 A93-35255

VAZQUEZ, J. M. MORENO

An epidemiological study in SAF's pilots ejections p 143 N93-19699

VAZQUEZ, JUAN M. MORENO

Objective improvements obtained by control of diet and physical training in Spanish Air Force fighter pilots

p 369 N93-32258

VAZQUEZ SIXTO I

Interactive Scene Analysis Module - A sensor-database fusion system for telerobotic environments

p 184 A93-27032

VEJVODA, M.

Pre-adaptation to shiftwork in space

p 386 A93-52403

VEJVODA, MARTIN

Response of the circadian system to 6 deg head-down It hed rest p 117 A93-24045 tilt bed rest

Effect of task complexity on mental performance during immersion hypothermia p 211 A93-30279 VELTHUIZEN, ROBERT P. A comparison of neural network and fuzzy clustering

techniques in segmenting magnetic resonance images of p 214 A93-31267

VENEMA, STEVEN C.

Fusing human and machine skills for remote robotic operations p 137 A93-24994

VENERI, RUGGERO

System integration and verification approach for the environmental control system of the Columbus Attached Pressurised Module

[SAE PAPER 921261] p 299 A93-41431 VERANI, P.

HIV variability and perspectives of a vaccine p 16 N93-11294

VERCHER, JEAN-LOUIS

Dynamic analysis of human visuo-oculo-manual coordination control in target tracking tasks

p 287 A93-41166

VERGHESE, C. A.

Lower body negative pressure system for simulation of + Gz-induced physiological strain p 119 A93-25210 VERKLEIJ, A. J.

Inhibition of EGF-induced signal transduction by microgravity is independent of EGF receptor redistribution in the plasma membrane of human A431 cells

VERKLEIJ, ARIE J.

Altered gravity conditions affect early EGF-induced signal transduction in human epidermal A431 cells

p 376 A93-49214

p 272 A93-39715

p 383 A93-49574

VERLANDER, JAMES

The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network p 258 N93-25595

VERNET-MAURY, EVELYNE

The influence of individual sensivity to stress on the behavior (attitude and performance) of avoidance of an accident p 134 N93-19705

VERNIKOS, J.

Altered baseline blood volume and the norepinephrine response to stress in humans p 43 A93-14123 Drug effects on orthostatic intolerance induced by bedrest p 86 A93-17544

VERNIKOS, JOAN

Human support for Mars exploration - Issues and approaches p 27 A93-12077

VERON, HARRY

Head mounted displays for virtual reality

IAD-A2634981 p 322 N93-29340

VERONA, ROBERT W.

Comparison of CRT display measurement techniques p 229 A93-30067

VEROSTKO, CHARLES E.

An assessment of waste processing/resource recovery technologies for lunar/Mars life applications

ISAE PAPER 9212711 p 300 A93-41441 Post-treatment of reclaimed waste water based on an electrochemical advanced oxidation process

[SAE PAPER 921275] p 301 A93-41444

A hybrid regenerative water recovery system for lunar/Mars life support applications

|SAE PAPER 921276|

p 301 A93-41445

VERRIER, RICHARD L.

Increased release of brain serotonin reduces vulnerability to ventricular fibrillation in the cat

p 151 A93-26500

VERSCHUT, R.

Occupant simulation as an aspect of flight safety research p 142 N93-19665

VERSPAY, J. J. L. H.

A comparative evaluation of three take-off performance monitor display types

p 406 A93-52669

[AIAA PAPER 93-3608]

VEST, THOMAS W.

Bar-holding prosthetic limb p 70 N93-14870 [NASA-CASE-MFS-28481-1]

VETOSH, A. N.

The effect of elevated nitrogen pressure on motor activity

and relationships among brain centers in monkeys p 75 A93-18289

Studies of safety, infectivity, and immunogenicity of a new Temperature Sensitive (TS) 51-1 strain of S. typhi as a new live oral typhoid fever vaccine candidate p 19 N93-11306

VETROVA, E. G.

Metabolism in cosmonauts - Results of biochemical blood analyses for crew members of seven primary missions on the Mir orbital station p 250 A93-35254 VIBERTI, C.

Zero-gravity underwater simulations for the Columbus programme - Outcome of the first campaigns

p 62 A93-17075 VICO, L.

Microgravity and bone adaptation at the tissue level

p 170 A93-28761

VIDEBAEK, R.

Arterial pulse pressure and vasopressin release in humans during lower body negative pressure

p 360 A93-47096 VIDULICH, MICHAEL A.

Testing a subjective metric of situation awareness p 178 A93-27183

VIEILLEFOND. H.

Evaluation of zolpidem on alertness and psychomotor abilities among aviation ground personnel and pilots p 401 A93-55163

VIKEN, SALLY A.

Predictive nosepointing and flightpath displays for air-to-air combat p 229 A93-30071

VIKTOROV, A. N.

Microflora of cabins of manned space objects and the problem of biological damage to the structural materials p 262 A93-35237

VILLARREAL, LEOPOLDO J.

Space Shuttle crew compartment debris-contamination p 305 A93-41504 **ISAE PAPER 9213451**

VINH, NGUYEN X.

Flight mechanics of high-performance aircraft

IISBN 0-521-34123-X1 p 365 A93-47019

VISELLI, SUSAN M.

Prolactin-induced mitogenesis of lymphocytes from p 329 A93-44934 ovariectomized rats

VISO, MICHEL

Norepinephrine content in discrete brain areas and neurohypophysial vasopressin in rats after a 9-d spaceflight (SLS-1) p 273 A93-41167

VISWESVARN, C.

Meta-analysis of integrity tests: A critical examination of validity generalization and moderator variables [AD-A254681] p 27 N93-12225

VITHARANA, L. P. M.

Chiral symmetry breaking in nonlinear autocatalytic reactions and the effect of external noise p 269 A93-36564

VIZZACCARO, A.

In vivo and in vitro diagnosis of allergic respiratory disease during screening procedures in the Italian Navy: Comparative evaluation of a recent quantitative Comparative automatized enzyme immunoassay method to dose p 21 N93-11314

VLADIMIROV, N. I.

Evaluation of the efficiency of the pilot's control activity in a flight simulator p 100 A93-18347

VLASOV, V. V.

Age and length of service of flight personnel in the case of chronic diseases p 248 A93-35227 Age-related changes in hemoglobin and erythrocyte vels p 250 A93-35250

VOELKEL, N. F.

Endotoxin priming followed by high-altitude causes pulmonary edema in rats p 323 A93-42186 VOGEL, JAMES A.

An annotated bibliography of research involving women conducted at the US Army Research Institute of Environmental Medicine p 360 N93-31917

[AD-A265497] **VOGEL. KURT**

Swimming behavior of the unicellular flagellate, Euglena gracilis, in simulated and real microgravity

p 151 A93-26549 VOGT, GREGORY L.

Suited for spacewalking: A teacher's guide with activities p 65 N93-13692

INASA-EP-2791 VOJTENKO, A. M.

The problem of the pilot's professional reliability p 410 A93-55334

VOL'F, N. V.

Human biorhythms following interregional travel (with reference to Novosibirsk-Vladivostok flights) p 247 A93-35214

VOLK TYLER

Crop growth and associated life support for a lunar p 67 N93-13994

VOLKER, SUSANNE Structure of a molecular chaperone from a thermophilic archaebacterium p 151 A93-25821

VOLLE, MICHEL

Dynamic analysis of human visuo-oculo-manual coordination control in target tracking tasks p 287 A93-41166

VOLZ. RICHARD

Incorporating robot vision in tele-autonomous systems p 184 A93-27031

VON JOUANNE, ROGER G.

Dew point analysis for Space Station Freedom ISAE PAPER 921227] p 296 A93-41401

VORONA, A. A.

Computerized teaching of pilots to spatial orientation p 404 A93-52694 VORONKOV, I. I.

Influence of microgravity on immune system and genetic information p 160 A93-26572

VORONKOV, Y. I.

Influence of microgravity on immune system and genetic p 220 N93-24370 information

VOROS, ROBERT S.

Age 60 Project: Consolidated database experiments 1HS-TR-8025-3C(R2)] p 314 N93-27851

VOVENKO, E. P.

Distribution of oxygen tension in pial arterioles of rats p 76 A93-18295 under normobaric hyperoxia

VOVK, E. V.

Correlation between the lymph dynamics and venous pressure during short-term antiorthostatic effects p 325 A93-43070

W

WADA, K.

Organic models of interstellar grains p 35 A93-11847

WADA, YOSHIROU

Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 WADDLE, JENNY

Separation of rat pituitary secretory granules by ontinuous flow electrophoresis p 329 A93-44933 continuous flow electrophoresis

WADE, C. E.

Effect of hemorrhage on cardiac output, vasopressin, aldosterone, and diuresis during immersion in men p 6 N93-12014

[NASA-TM-103949] WADE, CHARLES

Gravitational Biology Facility on Space Station: Meeting p 206 N93-22625 the needs of space biology

WAGNER, DANIEL R. The effects of an antijet lag diet p 370 N93-32263

WAGNER, P. D. Operation Everest II - Spirometric and radiographic changes in acclimatized humans at simulated high

altitudes WAGNER, PETER D.

Increased plasma O2 solubility improves O2 uptake of in situ dog muscle working maximally

p 111 A93-21684 Mechanisms of improved arterial oxygenation after peripheral chemoreceptor stimulation during hypoxic exercise p 331 A93-42188

WAKAHARA, M.

Early amphibian (anuran) morphogenesis is sensitive to p 156 A93-28745 novel gravitational fields

WAKATSUKI, TOHRU

Adaptation of skeletal muscles and physical work capacity in a weightless environment p 38 A93-15527

WALIGORA, JAMES M.

The influence of prior exercise at anaerobic threshold on decompression sickness p 8 A93-10333 Time to detection of circulating microbubbles as a risk factor for symptoms of altitude decompression sickness p 46 A93-16153

WALKER, B. D.

Computer aided methods for simulating occupant response to impact using OASYS DYNA3D p 142 N93-19666

WALKER, C. A. The neurochemical and neuropharmacological basis of motion sickness p 50 N93-13061 [NASA-CR-190957]

WALKER, IAN D.

Grasp synthesis for planar and solid objects

p 184 A93-27034

WALKER, M. Aminohydroxybutane bisphosphonate and clenbuterol prevent bone changes and retard muscle atrophy p 271 A93-39703

respectively in tail-suspended rats WALKER, M. W. Incorporating robot vision in tele-autonomous systems p 184 A93-27031

WALKER, MICHAEL W. Space based robot manipulators - Dynamics of contact and trajectory planning for impact minimization

p 135 A93-22827

p 125 N93-19664

p 305 A93-41506

WALLACE-ROBINSON, JANICE

Publications of the Space Physiology and Countermeasures Program, Neuroscience Discipline:

[NASA-CR-4476] p 55 N93-15583 Publications of the Space Physiology and Countermeasures Program, Cardiopulmonary Discipline: 1980-1990

(NASA-CR-4475) p 123 N93-18376

WALLACE, W. A.

Can injury scoring techniques provide additional p 125 N93-19663 information for crash investigators? Is axial loading a primary mechanism of injury to the lower limb in an impact aircraft accident?

WALLESHAUSER, JAMES J.

Space Shuttle Orbiter oxygen partial pressure sensing and control system improvements

[SAE PAPER 921347]

WALTER, M. R. Preservation of biological information in thermal spring deposits - Developing a strategy for the search for fossil p 197 A93-28377 life on Mars

WALTERS, CURTIS L. Human factors applications in control systems design

for ground testing of turbine engines p 409 A93-54410

WALTERS, LAURIE C. Structured interviews for pilot selection - No incremental p 286 A93-39572 validity

WALTERS, T. J.

Intermittent cold exposure causes a muscle-specific shift in the fiber type composition in rats p 378 A93-52618 WALTON, K. Ď.

Identification of a critical period for motor development p 157 A93-28764 in neonatal rats

WANG, BAOZHEN

Protective effects of Rhodiola crenulata on rats under antiorthostatic position and professional athletes

p 327 A93-44843

WANG, FANGZI

Investigation of nonlinear dynamic responses to random p 4 A93-13722 vibration in dogs Investigation on requirements for ejection acceleration measuring system p 332 A93-44847

WANG, GONG-ZHI

Results of experiments on the exploration of genetic effect of rocket flight factors with Drosophila p 1 A93-11691

WANG HENGUIN

The development of a visual color checkerboard p 30 A93-13723

'Screening-Controlling' Psychological Selection System p 222 A93-30440 for Air Force pilot cadet WANG, JIA Z.

Imaging regional changes in the spontaneous activity of the brain: An extension of the minimum-norm least-squares estimate [AD-A2615931 n 260 N93-26436

WANG, JUNYUAN

Effects of acute hypoxia on intracranial dynamics in p 326 A93-44177 unanesthetized goats

WANG, XIANZHANG

Skin temperature and heat flow of head-neck region under different ambient temperatures p 46 A93-16074

WANG, YULAN A study of biological effects and characteristics of

dynamic responses of organism on landing impact p 10 A93-13533

Study on mechanical characteristics of viscera in dogs p 3 A93-13540

WANG, Z. R.

Chronobiology in a moon-based chemical analysis and physiologic monitoring laboratory p 48 A93-17439 WANG. ZHI

Investigation on requirements for ejection acceleration p 332 A93-44847 measuring system

WANGENSTEEN, O. D.

Time course of functional repair of the alveolar epithelium after hyperoxic injury p 78 A93-20032

WANKE, CRAIG

Hazard alerting and situational awareness in advanced air transport cockpits p 61 A93-14377

WARRERG J

Arterial pulse pressure and vasopressin release in humans during lower body negative pressure p 360 A93-47096

WARBERG, JORGEN Volume-homeostatic mechanisms in humans during a 12-h posture change p 387 A93-52620

WARBURTON, RICHARD

Case report - Chronic sub-dural hematoma following high-speed ejection p 282 A93-41171

WARD, G. F.

KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation

WARD, GEORGE A.

Ergonomic development of digital map displays p 320 N93-28866

WARGO, J.

Cancer risk assessment with intermittent exposure p 171 A93-28766

WARNCKE, MARIT

The psychological effects of isolation on a space station

ISAE PAPER 9211911

p 287 A93-41369

p 289 A93-39574

p 15 N93-11287

WARNER, HAROLD D.

simulated low-level flight

Effects of area-of-interest display characteristics of visual search performance and head movements in

p 341 N93-30542 [AD-A264661]

WARNER, HARRY D.

Flight director information and pilot performance in instrument approaches

p 131 N93-17857 [AD-A258186]

WARNER, MARGARET Instrument-approach-plate design considerations for

WARNER R W Viral hepatitis in the US Air Force, 1980 - 1989

displaying radio frequencies

WARNER, RONALD Analysis of disease progression from observations of US Air Force active duty members infected with the Human Immunodeficiency Virus: Distribution of AIDS survival time from interval censored observations p 17 N93-11297

WARNER, RONALD D

Estimates of Human Immunodeficiency Virus (HIV) incidence and trends in the US Air Force

p 16 N93-11292

A robust model for finding optimal evolutionary tre p 330 N93-30483 IDE93-0106821 WARNOW, TANDY J.

Two strikes against perfect phylogeny

p 157 N93-20848 IRUU-CS-92-08]

WARREN, RIK

WARNOW, T.

Multistage integration model for human egomotion perception

[AIAA PAPER 93-3564] WARWICK, GRAHAM

p 406 A93-52664

p 82 N93-17189

Looks can kill WASHBURN, DAVID A. p 231 A93-31626

Testing primates with joystick-based automated apparatus - Lessons from the Language Research Center's Computerized Test System p 202 A93-32651 Analyzing the path of responding in maze-solving and p 202 A93-32652 other tasks

Comparative assessment of psychomotor performance Target prediction by humans and macaques (Macac p 204 A93-33035 midatia)

Behavioral asymmetries of psychomotor performance in rhesus monkeys (Macaca mulatta) - A dissociation etween hand preference and skill p 339 A93-44923 Human factors with nonhumans - Factors that affect between hand preference and skill p 404 A93-52721 mouter-task performance

WASICKO MICHAEL J Response of genioglossus EMG activity to passive tilt p 279 A93-41118

WASIFLEWSKI M. R.

Primary charge separation in isolated photosystem 2 reaction centers

IDE92-0411281 SSERSUG, RICHARD J.

Studying the effects of microgravity on lower vertebrate development and behavior p 158 N93-21099

WASSMUTH, CHAD

SHARC! Space Habitat, Assembly and Repair Center [NASA-CR-192031] p 140 N93-18153

WATANABE, S. Working hours and fatigue of Japanese flight attendants

p 171 A93-28762

WATANABE, SATORU

Effects of visually induced self-motion perception (vection) on upright standing posture p 214 A93-31531

Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 WATANABE, Y.

Effect of transdermally administered scopolamine on the p 383 A93-49572 estibular system in humans WATENPAUGH, D. E.

Intramuscular pressure and electromyography as indexes of force during isokinetic exercise p 380 A93-49291

Cerebral blood flow velocity in humans exposed to 24 p 381 A93-49295 h of head-down tilt WATENPAUGH, DONALD E.

Role of atrial natriuretic peptide in systemic responses p 44 A93-14968 to acute isotonic volume expansion Transcapillary fluid responses to lower body negative p 380 A93-49292 pressure

WATERHOUSE, BARRY D.

The role of central monoaminergic systems in arousal and selective attention [AD-A258500] p 122 N93-18264

WATERS, S. A.

Optimal design of composite hip implants using NASA p 174 N93-22188 technology

WATSON, CHARLES S.

Institute for the Study of Human Capabilities [AD-A256091] p 69 N93-14427

WATSON, LAURANCE A.

Prevalence of corrective lens wear in Royal Australian p 289 A93-41173 WATSON, N. V.

Space and cognition - The measurement of behavioral functions during a 6-day space mission p 405 A93-55164

WATT, D. G. D.

Effects of long-term weightlessness OD p 279 A93-39725 circularvection

WAUGH, D. A.

Principles for integrating voice I/O in a complex p 146 N93-19774 interface

The application of Hybrid 3 dummy to the impact

p 143 N93-19671 assessment of a free-fall lifeboat WAVERING, ALBERT A manipulator control testbed - Implementation and

applications p 392 A93-50594

[AAS PAPER 92-054]

WAXMAN, ALLEN M.

Parametric study of diffusion-enhancement networks for spatiotemporal grouping in real-time artificial vision p 58 N93-14580

WEATHERSBY, E. D

WEATHERSBY, P. K.

tables 8: Statistically based decompression Linear-exponential kinetics p 120 N93-17926 IAD-A2576131

Statistically based decompression tables. 7: Selection and treatment of primary air and N2O2 data

p 172 N93-20587 LAD-A259090 L WEBB, JAMES T.

Complement proteins and decompression sickness suscentibility IAD-A2544481 p 50 N93-12905

WEBB, JOHANNA

The development and testing of a volatile organics concentrator for use in monitoring Space Station water quality

ISAF PAPER 9212661 n 300 A93-41436

WEBBER, W. ROBERT S. Automatic detection of seizures with applications

p 254 N93-25592

WEBBON, BRUCE W. Human support for Mars exploration - Issues and pproaches p 27 A93-12077 approaches Metabolic responses to simulated extravehicular

activity |SAE PAPER 921303| p 282 A93-41468

Extravehicular activity technology discipline p 314 N93-27859

WEBER, CHRISTOPH

CVA, cockpit design and development tool

p 147 N93-19780

WEBSTER, LAURIE The application of integrated knowledge-based systems for the Biomedical Risk Assessment Intelligent Network

p 258 N93-25595 WEDDENDORF, BRUCE Wheels for wheelchairs and the like

[NASA-CASE-MFS-28632-1] p 106 N93-17042 Portable seat lift [NASA-CASE-MFS-28610-1] p 106 N93-17045 Design of a portable powered seat lift

p 195 N93-22190 Platform stair lift [NASA-CASE-MFS-28772-1] p 353 N93-29845

Prosthetic elbow joint

INASA-CASE-MES-28707-11 p 354 N93-30566 WEE, LIANG-BOON Space based robot manipulators - Dynamics of contact

and trajectory planning for impact minimization p 135 A93-22827

p 135 A93-22916

WEGMANN, H. M.

Pre-adaptation to shiftwork in space

p 386 A93-52403

WEGMANN, HANS-MARTIN

Response of the circadian system to 6 deg head-down p 117 A93-24045 tilt bed rest

WEIDMANN, P.

Does drinking protect against mountain sickness? p 382 A93-49565

WEIGL. HARALD

Robot free-flyers in space extravehicular activity p 193 A93-29141

WEIGL HARALD J.

Kalman-filter-based machine vision for controlling free-fiving unmanned remote vehicles

WEINBERG, IRVING N.

Automated system for early breast cancer detection in p 253 N93-25568 mammograms

WEINSTEIN, CURT DAVID

The challenge of biodetection for screening persons p 159 N93-21931 carrying explosives

WEINSTEIN, LISA F.

HUD climb/dive ladder configuration and unusual p 185 A93-27129 attitude recovery Head-up display standardization and the utility of analog

vertical velocity information during instrument flight p 189 A93-27451 Utility of a ghost horizon and climb/dive ladder line

tapering on a head-up display p 353 N93-30167

IAD-A2644011 WEINSTEIN, SIDNEY

The challenge of biodetection for screening persons carrying explosives p 159 N93-21931

WEIR, F. W. Toxicokinetics of inhaled bromotrifluoromethane (Halon 1301) in human subjects p 278 A93-39705

WEISBIN, C. R. NASA's telerobotics research program

p 263 A93-35566

WEISS, FRED R. Protective helmet assembly INASA-CASE-MSC-21842-11 p 106 N93-17088 WEISS, J. F.

Recommended radiobiological studies for Lunar-Based Chemical/Biological/Medical Analysis Laboratory (LBCAL) p 39 A93-17429 WEISS, M. S.

A new instrumentation system for measuring the dynamic response of the human head/neck during impact

acceleration p 143 N93-19672 WEISSMAN, PAUL Helmet-mounted area of interest p 228 A93-30060

Helmet-mounted area-of-interest display IAD-A2582751 p 139 N93-18029

WELCH, JACK L.

Human factors applications in control systems design for ground testing of turbine engines p 409 A93-54410

WELCH, ROBERT B.

Alternating prism exposure causes dual adaptation and generalization to a novel displacement p 388 A93-51959

WELHAM, DAVID

Advances in training technology and the role of the instructor p 98 A93-18775 WELLEKENS, CHRISTIAN J.

The use of voice processing for some aspects of the pilot-vehicle-interface in an aircraft p 146 N93-19772 WELLS, ANDREW T.

Measuring hearing protection device performance using the metrosonics db-3100 sound level analyzer (dosimeter)

AD-A2608521 p 265 N93-25787

WELLS, MAXWELL J.

The effects of head and sensor movement on flight profiles during simulated dive bombing

p 185 A93-27131 WELSH, C. H.

Operation Everest II - Spirometric and radiographic changes in acclimatized humans at simulated high

WEN, XIULAN Protective effects of Rhodiola crenulata on rats under antiorthostatic position and professional athletes

p 327 A93-44843

WENDEL, WENDEL R. Evolving concepts of lunar architecture: The potentia p 107 N93-17447 of subselene development

WENSVEEN, JANICE

Design of a reading test for low vision image warping p 400 A93-53025

WENZEL, ELIZABETH M. Headphone localization of speech stimuli

p 176 A93-27143 Headphone localization of speech

p 394 A93-52507

The influence of military low-attitude flight noise on the

inner ear of the guinea pig. II - Scanning electron micrographs p 377 A93-49556 micrographs WERBLIN, FRANK S. Computer based analysis and synthesis of retinal

IAD-A2605141 p 221 N93-24420

WERCHAN, PAUL M. Acceleration-induced effects on baboon blood chemistry p 376 A93-49224 Acquisition of physiological data during G-induced Loss

p 335 N93-30400 LAD-A2644921

of Consciousness (G-LOC)

WERNER, ROBERT P. An update on the readiness of vapor compression distillation for spacecraft wastewater processing

(SAE PAPER 921114) p 290 A93-41307

WERNETH, RUSSEL The Servicing Aid Tool p 192 A93-29116

WERNICK, JANE Vertical regolith shield wall construction for lunar base p 107 N93-17446

applications WESENSTEN, NANCY J.

Effects of simulated high altitude exposure on long-latency event-related brain potentials p 117 A93-24042 WEST, JOHN B.

Pulmonary diffusing capacity, capillary blood volume, and cardiac output during sustained microgravity p 386 A93-52617

WEST, PHILIP R.

Performance evaluation of candidate space suit elements for the next generation orbital EMU [SAE PAPER 921344]

WESTCOTT, J. Y. Endotoxin priming followed by high-altitude causes

p 323 A93-42186 pulmonary edema in rats

WESTERTERP, KLAAS R.

Energy expenditure climbing Mt. Everest

p 92 A93-20031

WESTON, M. E. Viral hepatitis in the US Air Force, 1980 - 1989

p 15 N93-11287 WESTON, MARY

disease progression from Analysis of observations of US Air Force active duty members infected with the Human Immunodeficiency Virus: Distribution of AIDS survival time from interval censored observations

p 17 N93-11297 WESTON MARY E.

Estimates of Human Immunodeficiency Virus (HIV) incidence and trends in the US Air Force p 16 N93-11292

WEVER, A. M. J.

Phadiatop: A screening test for inhalant allergy p 21 N93-11313

WHARTON, R. A., JR.

The possibility of life on Mars during a water-rich past p 196 A93-27887

Controlled ecological life-support system - Use of plants for human life-support in space p 190 A93-28715 WHEELER, R. M.

Scenarios for optimizing potato productivity in a lunar p 67 N93-13997

WHEELER, RAY Controlled Ecological Life Support System (CELSS) nodeling p 137 A93-25308 OCAM - A CELSS modeling tool: Description and

results [SAE PAPER 921241] p 298 A93-41413

WHEELER, RICHARD R., JR.

Recenerable Microbial Check Valve - Life cycle tests

[SAE PAPER 921316] p 303 A93-41478 Regenerable biocide delivery unit, volume 1 [NASA-CR-185701-VOL-1] p 274 N93-27122 Regenerable biocide delivery unit, volume 2

[NASA-CR-185701-VOL-2] p 275 N93-27360 WHELAN, S. M.

Influence of animation on dynamical judgments p 180 A93-28692

WHELAN, SUSAN M.

Influence of animation on dynamical judgments

p 98 A93-20275 WHINNERY, JAMES E.

Statistical analysis of the human strangulation experiments: Comparison to +Gz-induced loss of consciousness

IAD-A2554851 p 54 N93-14789

WHITAKER, LESLIE A.

A cognitive classification of pilot performance in air p 347 A93-42814 combat

WHITCRAFT, ROBERT J.

Helmet-mounted display for the night attack mission

WHITE, BARRIE D.

The effects of structural failure on injuries sustained in the M1 Boeing 737 disaster, January 1989 ρ 118 A93-25201

The effects of brace position on injuries sustained in the M1 Boeing 737/400 disaster, January 1989 p 118 A93-25202

WHITE, DAVID C.

Biofilm ecology of bioluminescent bacteria [AD-A255282] p 42 N93-14532

WHITE, MARVIN H.

Electrically modifiable nonvolatile SONOS synapses for electronic neural networks

[AD-A258318] p 122 N93-18252 WHITE, R. G.

Keeping the pilot in the loop p 29 A93-13413

WHITE, VICKY L. The identification and quantitation of triamterene in blood

and urine from a fatal aircraft accident p 49 N93-12612 [AD-A254550]

WHITEHURST, TROY N., JR.

Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419

WHITESTONE, JENNIFER J.

Methods for characterizing the human head for the design of helmets [AD-A263875] p 353 N93-29889

WHITFORD, HOWARD W.

Water purification, microbiological control, sterilization and organic waste decomposition using an electrochemical advanced ozonation process

[SAE PAPER 921234] D 297 A93-41408 WHITMIRE, DANIEL P.

Habitable zones around main sequence stars

p 197 A93-28376

WHITMORE, MIHRIBAN

Individual differences in computerized test performance for systems integration in cockpit management

p 177 A93-27176

WHITSON, P. A.

Atrial natriuretic peptide degradation by CPA47 cells -Evidence for a divalent cation-independent cell-surface proteolytic activity p 155 A93-28726

WHITTAM, J. H.

Vascular uptake of rehydration fluids in hypohydrated men at rest and exercise

INASA-TM-1039421 p 255 N93-26133

WICHMAN, HARVEY

p 176 A93-27169 Crew performance in Spacelab

WICK, DANIEL T.

Networked simulation for team training of Space Station astronauts, ground controllers, and scientists - A training p 179 A93-27188 and development environment

WICKENS, CHRISTOPHER D.

Distance and organization in multifunction displays p 102 A93-19986

Electronic map interpretation in a dual-task context

p 176 A93-27144 S-R compatibility effects with orthogonal stimulus and

response dimensions p 179 A93-27194 Overconfidence, preview, and probability in strategic anning p 179 A93-27195

Compatibility and consistency in display-control systems Implications for aircraft decision aid design

p 230 A93-30454

p 335 N93-30160

WICKRAMASINGHE, NALINIE S. M. D.

Experimental studies on the origin of the genetic code and the process of protein synthesis - A review update p 73 A93-17822

WIDDEL, FRIEDRICH

Ferrous iron oxidation by anoxygenic phototrophic bacteria p 271 A93-39280

WIELAND, PAUL

Environmental control and life support system p 311 N93-27719 evolution Marshall Space Flight Center ECLSS technology activities p 312 N93-27724

WIENER, EARL L.

NER, EARL L. Cockpit checklists - Concepts, design, and use p 389 A93-52506

WIENHOLD, K.

Effects of simulated microgravity (HDT) on blood

p 44 A93-14972 WIERWILLE, W. W.

Recommendations for mental workload measurement in a test and evaluation environment p 394 A93-52504

OPTOVERT: An AUSTROMIR 91 experiment -Orientational effects from optokinetic stimulation

p 159 A93-26571 Optovert: An AustroMir-1991 experiment. Orientational effects from optokinetic stimulation p 226 N93-24366

WIGNARAJAH, K. Incineration for resource recovery in a closed ecological life support system p 409 A93-54826

WIKSWO, JOHN, JR. The AFOSR Workshop on the Future of EEG and MEG

IAD-A2643381 WILCOX, BRUCE C., JR.

Comparisons of molecular sieve oxygen concentrators for potential medical use aboard commercial aircraft

IAD-A253648 I p 31 N93-11279 WILCOX, BRUCE, JR.

Comparison of portable crewmember protective breathing equipment (CPBE) designs [DOT/FAA/AM-93/6] p 310 N93-27121

WILD, EDWIN T. Examination of the relationship between changes in the

demand for civil aviation services and the volume of flight simulator training p 98 A93-18773 WILDE, RICHARD C.

Evolution of Space Station EMU PLSS technology p 312 N93-27790 recommendations

WILDGRUBE, GREGORY
SHARC: Space Habitat, Assembly and Repair Center [NASA-CR-192031] p 140 N93-18153

WILEY, KENNETH D.

An improved anthropometric test device p 143 N93-19670 WILEY, LARRY

I-NIGHTS and beyond p 227 A93-30054 WILEY, ROGER W. The effects of pyridostigmine bromide on visual

performance p 87 A93-18034 WILKINSON, P. R.

The integration of advanced cockpit and systems p 147 N93-19779

p 59 N93-15184

p 318 N93-28855

Monitoring of pilot actions as part of a knowledge-based

Pilot intent and error recognition as part of a knowledge

WITTIG, T.

system for pilot assistance

based cockpit assistant

WILKINSON, R. Rett syndrome - Stimulation of en		biogople
amines WILLE, K. K.	p 164	A93-28697
Fluorocarbon 113 exposure and c among aerospace workers	ardiac p 168	dysrhythmias A93-28739
WILLEMS, G. C. A new instrumentation system	for me	easuring the
dynamic response of the human head acceleration	/neck o p 143	turing impact N93-19672
WILLFORD, DAVID C. Increased plasma O2 solubility imp in situ dog muscle working maximatly		02 uptake of
WILLIAMS-CAVENDER, K.	p 111	A93-21684
Toxicokinetics of inhaled bromotriflu 1301) in human subjects		hane (Halon A93-39705
WILLIAMS, ALAN D. Membrane technology for zero	gravity	life support
systems SAE PAPER 921320	p 304	A93-41482
WILLIAMS, CAROL S. Effects of spaceflight on the sperma of rat seminiferous epithelium		al population A93-44935
WILLIAMS, DOUGLAS W. Anaerobic treatment of organic was	•	
Ecological Life Support Systems [SAE PAPER 921272]		A93-41442
WILLIAMS, HENRY P. Electronic map interpretation in a d	•	
WILLIAMS, MARK		A93-27144
Helmet slippage during visual track voluntary head movements	king - T p 389	he effect of A93-49223
WILLIAMS, MARY Behavioral asymmetries of psycho	motor p	eriormance
		A93-44923
WILLIAMS, REDFORD B., JR. Human stress - Measurement and o		ences A93-17440
WILLIAMS, STEVEN P. Benefits, limitations, and guidelines	-	
stereo 3-D display technology environment	to th	ne cockpit A93-44895
Depth-viewing-volume increase by o		
3-D displays	p 407	A93-52915
In-simulator assessment of trad	e-offs	arising from
mixture of color cuing and monocu stereopsis cuing information	nar, oir n 407	A93-52916
WILLIAMS, WILLIAM J. Evaluation of lightweight and low pro		
devices for Respiratory Protective s	system	21 (RESPO
21) {AD-A253393} WILLIAMSON, J. W.	p 30	N93-10217
Aerobic fitness. I - Response of hormones to head-down tilt		regulating A93-28721
WILLIAMSON, JON W. Hormonal responses during orthosta	sis follo	wing 4 hours
of head-down tilt WILLIAMSON, REBECCA C. Metabolic responses to simula	•	A93-49221
activity [SAE PAPER 921303]		A93-41468
WILLIAMSON, S. J. Cognition and the brain	p 202	
[AD-A255483] Duration of alpha suppression incre		N93-14788 rith angle in
a mental rotation task (AD-A261592)		N93-26435
underlying short-term memory	cortic	-
[AD-A261445] WILLIAMSON, SAMUEL J.	•	N93-26521
underlying short-term memory	cortic p 58	al regions N93-14646
[AD-A255788] Imaging regional changes in the soil of the brain: An extension of the solution of the solution in the solution i	pontane	ous activity
least-squares estimate [AD-A261593]	p 260	N93-26436
The AFOSR Workshop on the I MEG		
[AD-A264338] WILLKE, DONALD T.	•	N93-30160
Upper interior head protection. development of a research test proce	dure	
[PB93-113769] Upper interior head protection.	p 194 Volume	N93-21537 2: Fleet

characterization and countermeasure evaluation

EVA and telerobot interaction

Human factors evaluation of the HL-20 full-scale

p 195 N93-21795

p 409 A93-53746

p 312 N93-27792

WILLSHIRE, WILLIAM L., JR. Human factors evaluation of the HL-20 full-scale
model p 409 A93-53746 WILMINGTON, R. P. Methodology issues concerning the accuracy of
kinematic data collection and analysis using the ariel performance analysis system
[NASA-CR-185689] p 34 N93-12211 WILMINGTON, ROBERT
Evaluation of lens distortion errors in video-based motion analysis [NASA-TP-3266] p 258 N93-25736
[NASA-TP-3266] p 258 N93-25736 WILMINGTON, ROBERT P. Astronaut candidate strength measurement using the
Cybex 2 and the LIDO Multi-Joint 2 dynamometers [NASA-CR-185679] p 34 N93-12195
WILSON, DENISE L. Effects of display luminance on the recognition of color
symbols on similar color backgrounds p 189 A93-27191 Theory of signal detection and its application to visual
target acquisition: A review of the literature AD-A262920 p 288 N93-28307
WILSON, G. F. The OMPAT level 1 Neurophysiological Performance
Assessment Battery: NPPAB [AD-A254840] p 27 N93-12432 WILSON, GLENN F.
Cardiorespiratory measures of workload during continuous manual performance p 160 A93-27192
WILSON, J. W. Track structure model for damage to mammalian cell cultures during solar proton events p 75 A93-18073
Human exposure to galactic cosmic rays in space p 410 A93-54887
WILSON, JOHN W. Radiation exposure and dose estimates for a
nuclear-powered manned Mars sprint mission p 60 A93-13817 Interplanetary crew exposure estimates for galactic
cosmic rays p 87 A93-17975 Katz model prediction of Caenorhabditis elegans
mutagenesis on STS-42 [NASA-TM-4383] p 50 N93-13023
Target fragmentation in radiobiology [NASA-TM-4408] p 124 N93-18381 WILSON, STEVE
The role of Environmental Health System air quality monitors in Space Station Contingency Operations
SAE PAPER 921414 p 310 A93-41565 WILSON, STEVEN First entry operations for spacecraft
[SAE PAPER 921384] p 308 A93-41542 WIMBUSH, R. M.
Pilot decision aiding for weapon delivery: A novel approach to fire control cueing using parallel computing p 317 N93-28853
WINFIELD, DANIEL L. Digital mammography, cancer screening: Factors important for image compression p 221 N93-24551
WING, MICHAEL R. The origin of the polycyclic aromatic hydrocarbons in meteorites p 110 A93-17983
WING, PETER C. Study design for microgravity human physiology experiments p 118 A93-25208
WINKLER, H. E. Shuttle Orbiter Environmental Control and Life Support
System - Flight experience [SAE PAPER 921348] p 305 A93-41507 WIRQUIN, E.
Reduction of postprandial lipemia after acute exposure to high altitude hypoxia p 382 A93-49567 WISE, JAMES A.
Life support research and development for the Department of Energy Space Exploration Initiative p 137 A93-25309
WISE, JAMES D. A distributed telerobotics system for space operations p 192 A93-29132
WISMANS, J. Occupant simulation as an aspect of flight safety research p 142 N93-19665
WITT, L. A. Organizational politics, participation in decision-making,
and job satisfaction [DOT/FAA/AM-92/17] p 257 N93-25203 WITTEN, MARK L.
The chronic effects of jP-8 jet fuel exposure on the lungs
[AD-A264162] p 334 N93-30153

Potential of derived lunar volatiles for life support

p 67 N93-13998

```
WOJCIK, PIOTR
    Knowledge-based task planning for the Special Purpose
  Dextrous Manipulator
                                     p 191 A93-29110
WOJCIK, Z. A.
    Ground operation of the mobile servicing system on pace Station Freedom p 190 A93-29107
  Space Station Freedom
WOLBARSHT, MYRON L.
    Retinal information processing for minimum laser lesion
  detection and cumulative damage
  [AD-A259195]
                                     p 171 N93-20563
WOLDSTAD, JEFFREY C.
    Movement tracking performance as a function of
                                     p 177 A93-27171
  required force level
WOLF-WATZ, H.
    Plasmid encoded virulence of Yersinia
  [FOA-B-40419-4.4]
                                     p 275 N93-28199
WOLF-WATZ, HANS
    Intracellular targeting of the Yersinia YopE cytotoxin in
  mammalian cells induces actin microfilament disruption
  [FOA-B-40420-4.4]
                                     p 275 N93-27989
WOLF, D. A.
    Rotating-wall vessel coculture of small intestine as a
  prelude to tissue modeling - Aspects of simulated microgravity p 471 A93-28765
WOLF, DAVID A.
    Method for culturing mammalian cells in a perfused
  bioreactor
  [NASA-CASE-MSC-21293-2]
                                       p 4 N93-10109
   Method for culturing mammalian cells in a horizontally
  [NASA-CASE-MSC-21294-2]
                                       p 5 N93-10110
WOLFE, W. H.
    Viral hepatitis in the US Air Force, 1980 - 1989
                                      p 15 N93-11287
WOLFE, WILLIAM H.
   Immunological parameters in current and former US Air
  Force personnel
                                      p 16 N93-11295
WOLK, C. P.
   Interdisciplinary research and training program in the
  plant sciences
                                       p 5 N93-10835
 [DE92-015919]
WONG, TIANXIANG
   The effects of cephalad body fluid redistribution on the
  ultrastructure of the vestibular apparatus of guinea pig
WONG, WILLIAM W.
   Comparison of total body water estimates from O-18
  and bioelectrical response prediction equations
                                     p 218 N93-23734
  [NASA-TP-3299]
WOOD, C. C.
   Functional MRI studies of human vision on a clinical
  imager
 IDE92-0174481
                                      p 49 N93-12566
WOOD, CHARLES D.
   Pharmacological countermeasures against motion
                                    p 404 A93-55945
WOOD, EARL H.
   Potential hazards of high anti-Gz suit protection
                                      p 48 A93-16164
WOOD, H. J., JR.
    Space biology initiative program definition review. Trade
  study 2: Prototype utilization in the development of space
  biology hardware
                                    p 209 N93-23082
WOOD, KATHRYN J.
    The prevalence of artificial lens implants in the civil
  airman population
 [DOT/FAA/AM-92/14]
                                    p 253 N93-25214
WOOD, MICHAEL G.
   Oxygen generation by static feedwater electrolysis for
  Space Station Freedom
 [SAE PAPER 921151]
                                     p 293 A93-41335
WOODARD, D.
 Emergency medical operations at Kennedy Space
Center in support of space shuttle p 166 A93-28712
WOODARD, DANIEL
   Mapping of electrical muscle stimulation using MRI
                                    p 279 A93-40549
   Phenytoin as a countermeasure for motion sickness in
 NASA maritime operations
                                    p 401 A93-55162
WOODMAN, CHRISTOPHER R.
   Influence of simulated microgravity on the maximal
  oxygen consumption of nontrained and trained rats
                                    p 323 A93-42192
    Muscle glucose uptake in the rat after suspension with
```

single hindlimb weight bearing

Spaceflight on STS-48 and earth-based unweighting

produce similar effects on skeletal muscle of young rats p 326 A93-44179

p 326 A93-44178

model

[PB93-113777] WILLSHIRE, KELLI F. WOODRUFF, KENNETH J.

Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO

IAD-A2533931

p 30 N93-10217

WOODRUFF, SUSAN I.

The US Navy Healthy Back Program: Effect on back knowledge among recruits

IAD-A2583681

p 121 N93-18210

WOODRUFF, WALTER Increasing hits and reducing misses in CRM/LOS scenarios - Guidelines for simulator scenario development p 286 A93-39575

WOODS, DAVID D.

Pilot interaction with cockpit automation - Operational experiences with the Flight Management System p 189 A93-27455

WOODS, K. M.

Effects of antiorthostatic suspension and corticosterone on macrophage and spleen cell function p 153 A93-28693

Microwave digestion preparation and ICP determination of boron in human plasma p 377 A93-49570

Introductions to the Proceedings of the Fourteenth Symposium on Biotechnology for Fuels and Chemicals p 276 N93-28890

WOOLFORD, BARBARA

An improved simulation based biomechanical model to stimate static muscle loadings p 160 A93-27172 WORDEN, EDSON A.

Simplified analysis of water distribution for Space Station

ISAE PAPER 9212301

p 296 A93-41404

WORGUL, B. V.

Accelerated heavy particles and the lens. VIII Comparisons between the effects of acute low doses of iron ions (190 keV/microns) and argon ions (88 keV/microns) p 216 A93-32784

WORKMAN, GARY L.

Physical and digital simulations for IVA robotics

p 391 A93-49445 WRAIGHT MICHAEL

Training analysis for the European Fighter Aircraft - A voyage into the unknown' p 98 A93-18769

WRIGHT J. C. The active-matrix LC head-down display (AM-LCD): Operational experience and growth potential

p 148 N93-19782

WU, A. H. The clinical chemistry and immunology of long-duration

space missions p 169 A93-28754 WU. GUIRONG

Identification of degree of head injury caused by impact p 4 A93-13720 loads in dog and rabbit

Chronobiology in a moon-based chemical analysis and p 48 A93-17439 physiologic monitoring laboratory

WU, JIAN-PING EEG changes in man during motion sickness induced p 92 A93-19996

by parallel swing WU, JIANMIN

Skin temperature and heat flow of head-neck region under different ambient temperatures p 46 A93-16074

Quantitative autoradiographic analysis of muscarinic cholinergic and GABAA (benzodiazepine) receptors in the forebrain of rats flown on the Soviet Biosatellite COSMOS 2044 p 156 A93-28743 WU, T. Y.

Effects of high altitudes on finger cooling test in Japanese and Tibetans at Qinghai Plateau

p 382 A93-49560

WU, WENCAN

Analysis of factors influencing contrast vision in normal p 332 A93-44848 eves

WURTMAN, J. J.

A balanced carbohydrate:protein diet in the management of Parkinson's disease p 153 A93-27918

WURTMAN, R. J.

Effects of running the Bostom Marathon on plasma concentrations of large neutral amino acids

p 160 A93-27048 A balanced carbohydrate:protein diet in the management p 153 A93-27918 of Parkinson's disease Persistent blockade of potassium-evoked serotonin

release from rat frontocortical terminals after fluoxetine p 202 A93-32125 administration Alanine increases blood pressure during hypotension

p 203 A93-33027 Relationship between pituitary ACTH content and

hypothalamic catecholamines in the rat p 203 A93-33028 Melatonin concentrations in the sudden infant death p 203 A93-33030 WURTMAN, RICHARD

Facilitation of levodopa-induced dyskinesias by dietary carbohydrates p 203 A93-33029

WURTMAN, RICHARD J.
Increased release of brain serotonin reduces vulnerability to ventricular fibrillation in the cat

p 151 A93-26500 Tryptophan availability modulates serotonin release from p 152 A93-27000 rat hypothalamic slices Effect of chronic D-fenfluramine administration on rat

hypothalamic serotonin levels and release

p 152 A93-27049 Dogamine release in rat striatum - Physiological coupling p 152 A93-27050 to tyrosine supply Differential effects of insulin resistance on leucine and

p 152 A93-27224 glucose kinetics in obesity Effects of systemic L-tyrosine on dopamine release from rat corpus striatum and nucleus accumbens

p 201 A93-32118 Serotonin release varies with brain tryptophan levels

p 201 A93-32119 Melatonin and its precursors in Y79 human retinoblastoma cells - Effect of sodium butyrate

p 214 A93-32120 Melatonin in human preovulatory follicular fluid

p 215 A93-32474 Effects of dietary amino acids, carbohydrates, and choline on neurotransmitter synthesis

p 204 A93-33031 Effects of their nutrient precursors on the synthesis and release of serotonin, the catecholamines, and

acetylcholine - Implications for behavioral disorders p 204 A93-33033 The pineal gland - Its possible roles in human

p 204 A93-33036 Tyrosine - Effects on catecholamine release

p 204 A93-33038 WYBORNY, W.

Mir 1992 operations and crew training p 226 N93-24352

WYDEVEN, T.

Incineration for resource recovery in a closed ecological life support system p 409 A93-54826

Introductions to the Proceedings of the Fourteenth Symposium on Biotechnology for Fuels and Chemicals EDE93-0062351 p 276 N93-28890

WYMAN, CHARLES E.

Life support research and development for the Department of Energy Space Exploration Initiative p 137 A93-25309

X

XIA. HOUCHUN

Dynamic analysis to evaluate viscoelastic passive damping augmentation for the Space Shuttle Remote Manipulator System n 28 A93-12222

XIANG. OIU-LU

The responses of cardiovascular during head-up tilt plus lower body negative pressure p 9 A93-11690
Method of selection of astronauts cardiovascular regulative function under simulated weightlessness

p 91 A93-19995 Effect of simulated weightlessness on microvessel permeability of various organs in rabbits

p 199 A93-30438

Changes of REG during 4h head-down bed-rest p 46 A93-16075 Effects of two kinds of Chinese herb medicine on rabbit's ear microcirculation under simulated weightlessness

p 327 A93-44842

XIAO, HONG-LIAO

The optimum design of personal liquid cooling system p 60 A93-14314

Human factors in design of military aircrafts' oxygen p 60 A93-14222 supply equipment XIE, BAO-SHENG

Effects of +Gy stress on human body

p 92 A93-19997

XIE. BAOSHENG

Observation of change in cytochrome oxidase content of cerebral cortex in rat under +Gz stress p 3 A93-13543

Effect of hypergravity on astronauts in space flight p 48 A93-16254

XIE. DAOING

Review of the space medico-engineering research in China p 402 A93-55802 IAAS PAPER 91-6231

XIE, WEI

A software for testing human's ability to trouble-shoot p 29 A93-13537 in the condition of multitask

XIE. WEIXIN

Spectral analysis of visual symbols p 30 A93-13718 XIU. GAN-YUAN

The optimum design of personal liquid cooling system n 60 A93-14314

XU. GUOLIN

The evaluation of tolerance to serious acute hypoxia in humans p 11 A93-13715

XU. JIANKE

Centralized, decentralized, and independent control of a flexible manipulator on a flexible base

p 231 A93-31517

XU, LI-HUA

The responses of cardiovascular during head-up tilt plus lower body negative pressure p 9 A93-11690

XU. SHENGGUO

Design of ion source of respiratory mass spectromete p 11 A93-13713

YII YAFU

Analysis of factors influencing contrast vision in normal p 332 A93-44848

Investigation on requirements for ejection acceleration neasuring system p 332 A93-44847 measuring system

Y

YABUSHITA, S.

Organic models of interstellar grains

p 35 A93-11847

Thermal evolution of cometary nuclei by radioactive heating and possible formation of organic chemicals p 196 A93-27561

YACAVONE, D. W.

Mishap trends and cause factors in naval aviation - A review of Naval Safety Center data, 1986-90

p 405 A93-55166

YADEN, DAVID B., JR.
The adult literacy evaluator: intelligent Αn computer-aided training system for diagnosing adult illiterates p 258 N93-26082

YAFFE, MARTIN J.

Digital mammography, cancer screening: Factors important for image compression p 221 N93-24551 YAJIMA, K.

Effect of transdermally administered scopolamine on the p 383 A93-49572 vestibular system in humans

YAJIMA, KAZUYOSHI

Arterial oxygen saturation during +Gz acceleration by short-radius centrifuge p 379 A93-49178 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 375 A93-49179 Hemodynamic and hormonal correlates with exposure to lower body negative pressure after 12 hours head-down p 379 A93-49220

YAKOVLEV, V. M.

Changes in the phospholipid and cholesterol content of rat tissues during adaptation to high altitude at different p 358 A93-47100 environmental temperatures YALUG. O.

Assessment of morale in Turkish Air Force pilots with two clinical psychological tests p 133 N93-19660

YAMAGUCHI, DEAN T. Cellular immunosenescence - An overview

p 80 A93-20663

YAMAGUCHI, ISAO Optimal manipulator trajectories for space robots [AAS PAPER 91-669] p 410 A93p 410 A93-55838

YAMAGUCHI, M. Simulated weightlessness and bone metabolism -Gravitational stimulation enhances insulin sensitivity

YAMAMOTO, CHIKASHI

Modification of water and electrolyte metabolism during head-down tilting by hypoglycemia in men

YAMAMOTO, KANHACHIRO

Mortality experience of cockpit crewmembers from Japan Airlines p 385 A93-52306 YAMAMOTO, Y.

Evaluation of spontaneous baroreflex response after 28 days head down tilt bedrest p 386 A93-52404

YAMAMOTO, YOSHIAKI

Mortality experience of cockpit crewmembers from Japan Airlines p 385 A93-52306 YAMANE, KEISUKE Theoretical and experimental studies for continuous path

control of flexible manipulator mounted on a free-flying

space robot [AIAA PAPER 93-3863]

p 392 A93-51449 YAMASHITA, H. I.

Visual search in virtual environments

p 233 A93-33450

p 168 A93-28736

p 92 A93-20029

YAMASHITA, KATSUMASA

YAMASHITA, KATSUMASA

Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats

YAMASHITA, MASAMICHI

p 398 A93-55329

p 382 A93-49560

Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 Japanese treefrog experiment onboard the Space p 210 N93-24402

YAN. XIAO-XIA

The responses of cardiovascular during head-up tilt plus lower body negative pressure p 9 A93-11690 YANAGAWA, HIROSHI

An experimental approach to chemical evolution in submarine hydrothermal systems p 74 A93-18008 Future research p 74 A93-18010 YANAGIDAIRA Y

Effects of high altitudes on finger cooling test in Japanese and Tibetans at Qinghai Plateau

YANAGIDAIRA, YASUNORI

Thermogenesis induced by inhibition of shivering during cold exposure in exercise-trained rats p 75 A93-18039

YANAGISAWA, K.

Effects of high altitudes on finger cooling test in

Japanese and Tibetans at Qinghai Plateau p 382 A93-49560

YANAKA, TADAO

The effect of G-experience on heart rate during +Gz pading p 333 A93-45322 loading

YANCY, CLYDE W.

Role of atrial natriuretic peptide in systemic responses to acute isotonic volume expansion p 44 A93-14968 YANG, GUANGHUA

Protective effects of Rhodiola crenulata on rats under antiorthostatic position and professional athlete p 327 A93-44843

YANG, TIAN-DE

Dynamic characteristic of changes of oxygen saturation of blood hemoglobin under conditions of acute hypoxia in human body p 91 A93-19993 YANG, YING-BO

Effects of acute hypoxia on intracranial dynamics in unanesthetized goats p 326 A93-44177 YANG, ZHONGQIANG

Effects of acute hypoxia on intracranial dynamics in unanesthetized goats p 326 A93-44177

Involuntary attentional capture by abrupt onsets p 97 A93-17974

YASUDA, KEIKO

Manned lunar surface site: Conceptual study on pressurized lunar surface operation rover p 316 N93-28032

YEAZEL, LOUISE M.

Pilot performance with blood alcohol concentrations below 0.04 percent p 46 A93-16151

YEH, YEI-YU Spatial judgments with monoscopic and stereoscopic presentation of perspective displays p 102 A93-19988 Visibility of transmissive liquid crystal displays under dynamic lighting conditions p 103 A93-19990

YENDLER, BORIS S. An approach to the functional optimization of the CELSS **Test Facility**

[SAE PAPER 921199] p 295 A93-41375 YESAVAGE, J.

Influence of aging and practice on piloting tasks

p 286 A93-39708 YESAVAGE, JEROME The time-course of alcohol impairment of general

aviation pilot performance in a Frasca 141 simulator p 384 A93-52299

YEVICH, S. D. HART

Nutritional assessment of United States tactical air p 367 N93-32242 command pilots

Nutritional assessment of United States tactical air p 367 N93-32242 command pilots

Changes in vitamin A status following prolonged immobilization (simulated weightlessness)

p 166 A93-28720 YOKOTA, H.

Early amphibian (anuran) morphogenesis is sensitive to novel gravitational fields p 156 A93-28745

Altering the position of the first horizontal cleavage furrow of the amphibian (Xenopus) egg reduces embryonic survival p 272 A93-39717

YON. L.

Immunocytochemical localization of atrial natriuretic factor (ANF)-like peptides in the brain and heart of the treefrog Hyla japonica - Effect of weightlessness on the distribution of immunoreactive neurons and cardiocytes p 377 A93-49561

YONETANI, SHOZO

Influence of viscous resistance on heart rate and oxygen uptake during treadmill walking in water p 94 A93-20898

YOON, SUNG H.

Recognition of partially occluded threat objects using p 142 N93-19466 the annealed Hopefield network

YOSHIMURA, KENJIRO

Graviperception in unicellular organisms - A comparative behavioural study under short-term microgravity p 151 A93-26548

YOSHIOKA, TOSHITADA

Behavioral adaptation to sustained hypobaric hypoxia manifested by timing behavior in rats. I

p 37 A93-15526 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 398 A93-55329

YOSHIZAWA, NAOKI

Conceptual study of manned lunar surface site p 316 N93-28031

YOST, WILLIAM A.

Auditory processing of complex sounds across frequency channels p 13 N93-10650

IAD-A2536121 YOUNG, A. J.

Sustaining health and performance in the cold: Environmental medicine guidance for cold-weather operation

[AD-A254328] p 23 N93-12145 Sustaining health and performance in the cold: A pocket guide to environmental medicine aspects of cold-weather operations

[AD-A259625] p 218 N93-24021 YOUNG, L. R.

Effects of long-term weightlessness circularvection p 279 p 279 A93-39725

YOUNG, MICHAEL J.

A cognitive architecture for human performance process model research [AD-A261040] p 258 N93-25815

YOUNG, PATRICIA M.

Operation Everest II - Metabolic and hormonal responses to incremental exercise to exhaustion p 115 A93-21685

Predicting radiation induced performance decrements of AH-1 helicopter crews. Volume 2: Evaluation of modeling and simulation techniques for predicting radiation induced performance decrements p 351 N93-29484

IAD-A2628721 YOUNG, RONALD B.

Establishing laboratory standards for biological flight experiments p 40 N93-12901

[NASA-CR-184402] YOUNG, WILLIE C.

Contribution of personality to the prediction of success in initial air traffic control specialist training p 259 N93-26138 LDOT/FAA/AM-93/41

YOUNGBLOOD, WALLACE W.

Increased fire and toxic contaminant detection responsibility by use of distributed, aspirating sensors p 311 N93-27722

YOUNIS, L. T.

Carbon monoxide exposure of subjects with documented cardiac arrhythmias

p 337 N93-30890

YU, BINGLIANG

Experimental study of volatile metabolites of human p 11 A93-13711

YU, F. S.

A physician's workstation designed for NASA and p 189 A93-28695 earth-based applications YU. Q. P.

Modulation of respiratory responses to carotid sinus nerve stimulation by brain hypoxia p 79 A93-20038 YU, XUNBING

Skin temperature and heat flow of head-neck re under different ambient temperatures p 46 A93-16074 YUMIKURA, SEI

Hemodynamic and hormonal correlates with exposure to lower body negative pressure after 12 hours head-down p 379 A93-49220

YUNG, JENNY E. Recovering potable water from wastewater in space

platforms by lyophilization ISAE PAPER 9213231 p 304 A93-41485

YURUGI, RYOHEI

Behavioral adaptation to sustained hypobaric hypoxia manifested by timing behavior in rats. I p 37 A93-15526

YUSHIN, V. A.

Oxygen regime in the frontal cerebral cortex of monkeys p 272 A93-40773 during a two-week space flight

Z

ZACHARIAS, GREG L

Multistage integration model for human egomotion Derception

[AIAA PAPER 93-3564] ZACHARY, WAYNE W.

p 406 A93-52664

Experimental validation of the attention switching component of the COGNET framework p 186 A93-27141

ZAFF, BRIAN S.

Computer-supported collaborative work - A new agenda for human factors engineering p 348 A93-42841

ZAHNER G Rated performance, cardiovascular and quantitative EEG parameters during simulated instrument flight under the effect of terfenadine p 165 A93-28708

ZAITLIN, MILTON

Center of Excellence in Biotechnology (Research) [AD-A263598] p 330 N93-29915

ZÁITSEVA, L. B. Metabolism in cosmonauts - Results of biochemical blood analyses for crew members of seven primary missions on the Mir orbital station p 250 A93-35254 ZAK. H.

Operator performance with alternative manual control p 390 A93-49397 modes in teleoperation

ZAKHAROV, S. D. Validation of the use of the helium-neon laser in the medical rehabilitation of patients with atrophy

p 248 A93-35228

ZAKLAD, ALLEN

Ocular attention-sensing interface system |NASA-CR-190884| p 65 p 65 N93-13450 ZAKLAD, ALLEN L.

Application and validation of workload assessment lechniques

IAD-A2645751 p 366 N93-32012 ZANETTI, A. R.

Vaccination against Hepatitis B: The Italian strategy p 15 N93-11289

ZAPATA, EDUARDO

Interactive and cooperative sensing and control for p 391 A93-49443 advanced teleoperation

ZATZ, MARTIN The Gordon Research Conference on Pineal Cell

Biology IAD-A2648401 p 337 N93-30904

ZAVADOVSKII, A. F.

Effect of stays at medium-mountain altitude on the maintenance of the good health and high physical work capacity of cosmonauts over a prolonged period of time

ZEICHNER ARIAN

Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored products AD-A255224 |

ZEIER, HANS

Psychophysiological stress research - Methodology and results of an investigation involving air traffic control HSBN-3-258-04585-21 n 97 A93-17971 ZELIGS, B. J.

Studies of safety, infectivity, and immunogenicity of a new Temperature Sensitive (TS) 51-1 strain of S. typhi as a new live oral typhoid fever vaccine candidate p 19 N93-11306

ZELLER, JOSEPH L., JR.

An evaluation of crew coordination and performance during a simulated UH-60 helicopter mission AD-A254984] p 35 N93-12509

ZELLNER, JOHN W.

An improved anthropometric test device p 143 N93-19670

ZERULL, ROBERT G.

Myocardial infarction occurring at the conclusion of centrifuge training in a 37-year-old aviator p 89 A93-18044

ZGHAL, H.

Collision avoidance of a multiple degree of redundancy manipulator operating through a window p 136 A93-23846

ZHAI, SHUMIN

A telerobotic virtual control system

ZHANG, HONGZHI

Protective effects of Rhodiola crenulata on rats under antiorthostatic position and professional athletes

p 327 A93-44843

p 183 A93-27030

ZHANG, JINGXUE

Preliminary study on the physiological changes and tolerance in ground squirrels under several specific p 2 A93-13532 experimental conditions

ZHANG, OLII

Preliminary investigation on personality of pilots

p 24 A93-13541

PERSONAL AUTHOR INDEX ZWILLICH, CLIFFORD W.

ZHANG, RUGUO

Effects of different inhalant O2 concentrations on ventilatory and heart rate kinetic responses during p 11 A93-13707 Problems of respiratory physiology during space flight

ZHANG, Y.

Effects of high altitudes on finger cooling test in Japanese and Tibetans at Qinghai Plateau

p 382 A93-49560

p 332 A93-44849

ZHANG, YONGFA

Experimental research on the anti-irradiation effects of KW-1 - Protective effect on the 5-HT content of tissues in irradiated mice p 3 A93-13542

ZHANG, YUMING

Human factors in design of military aircrafts' oxygen supply equipment p 60 A93-14222

ZHAO, GUOXUAN

Characteristics of heart rate response (HRR) in young men during exercise p 10 A93-13706

ZHAO, XU

Relationship between ERP and workload in manual p 30 A93-13721 control

ZHAO, YUANHUAI

Value of frequency domain correlative cardiography (FCG) to early diagnosis of coronary heart diseas

p 10 A93-13705

p 52 N93-14084

ZHENJIANG, CUI

Postoperative hyperbaric oxygen treatment of peripheral nerve damage

[AD-A255842]

ZHILIAEV. S. IU. Local blood supply of the brain of guinea pigs developing the high-pressure neural syndrome p 76 A93-18293

The state of brain oxygenation in guinea pigs breathing high-density gas mixtures p 76 A93-18294

ZHOU, CHUAN-DAI

Self-organizing character of alpha wave in EEG due to acute hypoxic hypoxia in normal subjects

p 213 A93-30436

ZHOU, YUNLONG

Effects of sustained +Gz stress on BAEP in waked p 10 A93-13531

Effects of +Gz stress on medium- and long-latency auditory evoked responses p 11 A93-13708

ZHOU. ZHEN-LEI

Joint-space Lyapunov-based direct adaptive control of a kinematically redundant telerobot manipulator

p 407 A93-53038

ZHUANG, DAHENG

Radiation dose measurement and biostack experiment p 327 A93-44845 in biocabin on board satellite

ZHUANG, JIANGUO

Hypoxic ventilatory responsiveness in Tibetan compared with Han residents of 3,659 m p 280 A93-41120 Minimal hypoxic pulmonary hypertension in normal Tibetans at 3,658 m p 280 A93-41121

ZHUANG, XIANG-CHANG

The responses of cardiovascular during head-up tilt plus lower body negative pressure p 9 A93-11690

ZHUANG, XIANGCHANG

Investigation on requirements for ejection acceleration measuring system p 332 A93-44847

ZHUKOVSKII, M. A.

Evaluation of the efficiency of the pilot's control activity in a flight simulator p 100 A93-18347

ZIEGLER, W. H.

Effect of head-down tilt bedrest (10 days) on lymphocyte p 163 A93-28684 reactivity

ZIELINSKI, IRENE

Photo and thermal reactions of ferrous hydroxide p 269 A93-36561

ZIGANSHIN, R. KH.

Vagotropic effects of peptides isolated from the brain of hibernating susliks p 38 A93-16749

ZIL'BERMAN, S. TS.

The state of the endocrine system of rats of different age under conditions of immobilization stress and biomos administration p 242 A93-35671

ZIMMERMAN, WAYNE

Teleropot control mode performance assessment [AAS PAPER 92-053] p 392 A93-5 p 392 A93-50593

ZINGER, EDWARD F.

Immobilized cell bioreactors for water reclamation -Process stability and effect of reactor design [SAE PAPER 921277] p 301 p 301 A93-41446

ZISSMAN, MARC A.

Programmable interactive system for cochlear implant electrode stimulation [AD-A262558] p 333 N93-29421

ZOGA, T.

Correlation of life-style and dietary concomitants of Greek pilots with serum analytes p 369 N93-32256

ZONGOR, I.

The Inkubator-2 complex for studying the embryonic and postembryonic development of birds in conditions of p 241 A93-35242

ZOROVA, O. V.

Effect of adaptation to hypoxia on the contractile activity of fast and slow muscles in the rat p 324 A93-43035 ZUBAL, OREST

Effect of protective clothing ensembles on artillery battery crew performance

IAD-A2543271 ZUEV, V. G.

Microwaves and the visual analyzer

p 64 N93-12960

ZWILLICH, CLIFFORD W.

p 250 A93-35247

Increased normoxic ventilation induced by repetitive p 79 A93-20037 hypoxia in conscious dogs

CORPORATE SOURCE INDEX

nerve damage

[AD-A255842]

AEROSPACE MEDICINE AND BIOLOGY / A Continuing Bibliography 1993 Cumulative Index

Aerospace Medical Research Labs., Brooks AFB, TX.

p 15 N93-11287

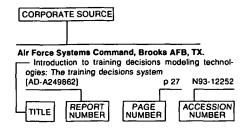
Viral hepatitis in the US Air Force, 1980 - 1989

January 1994

p 52 N93-14084

Postoperative hyperbaric oxygen treatment of peripheral

Typical Corporate Source Index Listing



Listings in this index are arranged alphabetically by corporate source. The title of the document is used to provide a brief description of the subject matter. The page number and the accession number are included in each entry to assist the user in locating the abstract in the abstract section. If applicable, a report number is also included as an aid in identifying the document.

Α

Advanced Aviation Concepts, Jupiter, FL Workshop on Aeronautical Decision Making (ADM). Volume 1: Executive summary p 99 N93-16189 [AD-A257016] How expert pilots think: Cognitive processes in expert decision making [DOT/FAA/RD-93/9] p 288 N93-27103 Advisory Group for Aerospace Research and Development, Neuilly-Sur-Seine (France). Allergic, Immunological and Infectious Disease Problems in Aerospace Medicine n 14 N93-11283 LAGARD-CP-5181 Operational use of contact lenses by military aircrew | AGARD-AG-334 | p 95 N93-15824 Human performance assessment methods [AGARD-AG-308-ADD] p 133 N93-18868 Advanced Aircraft Interfaces: The Machine Side of the Man-Machine Interface AGARD-CP-521 p 144 N93-19757 Combat Automation for Airborne Weapon Systems: [AGARD-CP-521] Man/Machine Interface Trends and Technologies p 317 N93-28850 [AGARD-CP-520] Nutrition, Metabolic Disorders and Lifestyle of Aircrew [AGARD-CP-533] p 367 N93-32240 Aeronautical Systems Div., Wright-Patterson AFB, OH. KC-135 crew reduction feasibility demonstration simulation study. Volume 3: Test and evaluation p 30 N93-10713 JAD-A253931 J Attitude awareness enhancements for the F-16 head-up display [AD-A260280] p 236 N93-24168 Aeroplane and Armament Experimental Establishment,

Helicopter night vision goggle testing in the United

Advanced satellite workstation: An integrated workstation environment for operational support of satellite

p 148 N93-19917

p 33 N93-11941

[AD-A254809]

Boscombe Down (England).

Aerospace Corp., Los Angeles, CA.

system planning and analysis

Kingdom

```
Dual-task training strategies and aging
    Estimates of Human Immunodeficiency Virus (HIV)
                                                                                                        p 131 N93-18027
                                                                   I AD-A258261 I
  incidence and trends in the US Air Force
                                                                     A study of illness related lost time in transport aircraft
                                        p 16 N93-11292
                                                                   crewmembers
    Immunological parameters in current and former US Air
                                                                                                         p 132 N93-18298
                                                                   IAD-A2581931
  Force personnel
                                        p 16 N93-11295
                                                                     The effects of iconic presentation on individuals
    Susceptibility in USAF recruits to vaccine preventable
                                                                                                        p 133 N93-18949
                                                                   LAD-A2587851
                                         p 18 N93-11301
                                                                     A toposcopic investigation of brain electrical activity
    Thermal stress in US Air Force operations
                                                                   induced by motion sickness
                                         p 51 N93-14027
  LAD-A255785 L
                                                                                                        p 124 N93-18952
                                                                  [AD-A259024] p 124 N93
Retinal modeling: Segmenting motion
    Physiological stress from chemical defense clothing and
                                                                    ipatio-temporal inputs using neural networks
  LAD-A2557861
                                         p 51 N93-14028
                                                                                                       p 125 N93-19369
                                                                   IAD-A2588541
    Night vision manual for the flight surgeon
                                                                     Comparative evaluation of a monocular head mounted
                                        p 104 N93-15710
  [AD-A257059]
                                                                   display device versus a flat screen display device in presenting aircraft maintenance technical data
    Flight director information and pilot performance in
  instrument approaches
                                                                    AD-A259684|
                                                                                                         p 234 N93-23660
  [AD-A258186]
                                        p 131 N93-17857
                                                                Air Force Medical Center, Lackland AFB, TX.

Early markers of HIV infection and subclinical disease
    The Proceedings of the Hypobaric Decompression
  Sickness Workshop
                                                                                                         p 17 N93-11296
                                                                   Neuropsychiatric morbidity in early HIV disease:
Implications for military occupational function
  IAD-A2576121
                                        n 123 N93-18362
    Pilot Candidate Selection Method (PCSM): What makes
                                                                                                         p 18 N93-11299
  [AD-A262871]
                                       n 340 N93-29481
                                                                Air Force Systems Command, Brooks AFB, TX.
    Predicting
                aircrew training
                                      performance
                                                                     Introduction to training decisions modeling technologies:
  psychometric g
                                                                   The training decisions system
                                       p 340 N93-30026
  I AD-A264021 I
                                                                                                         p 27 N93-12252
                                                                   IAD-A2498621
Aerospace Medical Research Labs., Wright-Patterson
                                                                    Field test of a computer-driven tool to measure
  AFB, OH.
                                                                   psychological characteristics of aircrew
    Development of a tactile perceived attitude transducer
                                                                   AD-A2644841
                                                                                                        p 341 N93-30425
  AD-A2537241
                                        p 25 N93-11081
                                                                     Determinants of performance rating accuracy: A field
    The effect of variable seat back angles on human
                                                                   study
  response to +Gz impact accelerations
                                                                   [AD-A264726]
                                                                                                        p 342 N93-30575
                                        p 31 N93-11559
  [AD-A250673]
                                                                     A preliminary empirical evaluation of virtual reality as
    Hybrid 2 and hybrid 3 dummy neck properties for
                                                                   an instructional medium for visual-spatial tasks
  computer modeling
                                                                                                        p 367 N93-32151
  [AD-A255544]
                                                                     Nutrition for a typical MAC crew during Desert Storm
    Measurement and evaluation of blast overpressure
                                                                                                        p 368 N93-32245
  during F-15A crew station vulnerability assessment test
                                                                     The lifestyle and dietary consumption patterns of United
                                       p 104 N93-16033
  [AD-A257152]
                                                                   States Air Force aviators within air training command at Randolph Air Force Base, Texas p 369 N93-32257
    Theory of signal detection and its application to visual
  target acquisition: A review of the literature
                                                                   The influence of dietary counseling and cardiac catheterization on lipid profiles in American military
                                       p 288 N93-28307
  [AD-A262920]
    Armstrong Laboratory space visual function tester
                                                                                                        p 369 N93-32259
                                                                   aviators
                                       p 284 N93-28739
                                                                     Subjective mood and fatigue of C-141 crew during Desert
    Effect of microgravity on several visual functions during
                                                                                                        p 370 N93-32264
                                                                   Storm
  STS Shuttle missions: Visual Function Tester-Model 1
                                                                     C-141 aircrew sleep and fatigue during the Persian Gulf
                                       p 284 N93-28740
                                                                                                        p 371 N93-32265
                                                                   conflict
  Effect of microgravity on visual contrast threshold during STS Shuttle missions: Visual Function Tester-Model 2
                                                                     Digital flight data as a measure of pilot performance
                                                                   associated with fatigue from continuous operations during
                                       p 284 N93-28741
                                                                                                        p 371 N93-32268
                                                                   the Persian Gulf conflict
  Effect of microgravity on the visual near point: Visual Function Tester-Model 4 (VFT-4) p 284 N93-28742
                                                                Air Force Systems Command, Wright-Patterson AFB,
    Cognitive interface considerations for
                                                intelligent
                                                                     A tutorial on exit pupils and eye rotation with virtual image
                                       p 319 N93-28865
  cockpits
                                                                   optical displays
    An evaluation of B-1B pilot performance during simulated
                                                                   [AD-A262399]
                                                                                                         p 333 N93-29400
  instrument approaches with and without status
                                                                 Air Force Wright Research and Development Center,
  information
                                                                   Wright-Patterson AFB, OH.
  [AD-A263874]
                                       p 353 N93-29888
                                                                     Developing virtual cockpits
                                                                                                         p 145 N93-19764
    Methods for characterizing the human head for the
                                                                 Air War Coll., Maxwell AFB, AL.
  design of helmets
                                                                     A paradigm shift in Air Force medicine
  [AD-A263875]
                                       p 353 N93-29889
                                                                                                        p 121 N93-18159
                                                                   [AD-A258334]
    Handedness and motor programming effects of manual
                                                                 AiResearch Mfg. Co., Los Angeles, CA.
  control and movement
                                                                     Dust protection for environmental control and life support
  JAD-A264022J
                                       p 340 N93-30027
                                                                   systems in the lunar environment
                                                                                                        p 315 N93-27979
Air Force Human Resources Lab., Brooks AFB, TX.

Epidemiology of United States Air Force spatial disorientation accidents: 1990-1991 p 133 N93-19679
                                                                 Alabama A & M Univ., Normal.
                                                                     A proposal to demonstrate production of salad crops
                                                                   in the Space Station Mockup Facility with particular
    Measuring hearing protection device performance using
                                                                   attention to space, energy, and labor constraints
  the metrosonics db-3100 sound
                                                                                                         p 209 N93-23169
                                                                   INASA-CR-1928151
  (dosimeter)
                                                                 Alabama Univ., Huntsville.
                                       p 265 N93-25787
  IAD-A2608521
                                                                     ECLSS medical support activities
Air Force Human Resources Lab., Wright-Patterson
                                                                   (NASA-CR-184429)
                                                                                                          p 23 N93-12427
  AFB, OH.
                                                                     Establishing laboratory standards for biological flight
    A cognitive architecture for human performance process
                                                                   experiments
  model research
                                                                   [NASA-CR-184402]
                                                                                                          p 40 N93-12901
  [AD-A261040]
                                       p 258 N93-25815
Air Force Inst. of Tech., Wright-Patterson AFB, OH.
                                                                     Methods development for total organic carbon
    Physiological effects of positive pressure ventilation
                                                                     ccountability
```

INASA-CR-1844381

p 49 N93-12751

p 40 N93-12949

Alaska Univ. CORPORATE SOURCE

		OOM ONNE COOKE
Microbiological methods for the water recovery systems	Arkansas Univ., Pine-Bluff.	Effects of caffeine on mental performance and mood:
test, revision 1.1	The neurochemical and neuropharmacological basis of	Implications for aircrew members p 372 N93-32269
[NASA-CR-184390] p 64 N93-12966	motion sickness	Army Research Inst. of Environmental Medicine,
Ground testing of bioconvective variables such as	[NASA-CR-190957] p 50 N93-13061	Natick, MA.
morphological characterizations and mechanisms which	Armed Forces Radiobiology Research Inst., Bethesda, MD.	Sustaining health and performance in the cold:
regulate macroscopic patterns p 82 N93-17303	DoD space radiation concerns	Environmental medicine guidance for cold-weather operation
Development of a prototype interactive learning system using multi-media technology for mission independent	[AD-A253135] p 13 N93-10613	[AD-A254328] p 23 N93-12145
training program p 100 N93-17310	AFRRI reports	Effect of protective clothing ensembles on artillery
Materials dispersion and biodynamics project research	[AD-A254581] p 49 N93-12649	battery crew performance
p 207 N93-22651	AFRRI Reports	[AD-A254327] p 64 N93-12960
Alaska Univ., Anchorage.	AD-A257231 p 80 N93-15965 Army Aeromedical Research Lab., Fort Rucker, AL.	Validation of two temperature pill telemetry systems in
Nifedipine for treatment of high altitude pulmonary	The relationship between environmental conditions and	humans during moderate and strenuous exercise
edema	UH-60 cockpit temperature	[AD-A259068] p 124 N93-19072
[AD-A256959] p 95 N93-16187	[AD-A255918] p 69 N93-14090	Nutrition and hydration status of aircrew members consuming the food packet, survival, general purpose,
Alberta Research Council, Edmonton. A monitoring and control system for complex	Test and evaluation report of the Physic Control	improved during a simulated survival scenario
man-machine systems: Preliminary design	Defibrillator/Monitor, Model LifePak(tm) 6s	[AD-A258744] p 128 N93-20384
p 70 N93-14951	[AD-A255691] p 52 N93-14103 The relationship between computer scoring and	Sustaining health and performance in the cold: A pocket
American Inst. of Biological Sciences, Washington, DC.	safety-pilot grading of flight performance	guide to environmental medicine aspects of cold-weather
Possible biomedical applications and limitations of a	[AD-A256245] p 58 N93-14600	operations [AD-A259625] p 218 N93-24021
variable-force centrifuge on the lunar surface: A research tool and an enabling resource p 83 N93-17458	Effects of terfenadine and diphenhydramine on brain	[AD-A259625] p 218 N93-24021 Biophysical model for handwear insulation testing
tool and an enabling resource p 83 N93-17458 Anacapa Sciences, Inc., Fort Rucker, AL.	activity and performance in a UH-60 flight simulator [AD-A258012] p 119 N93-17817	[AD-A262926] p 320 N93-28884
Operator workload predictions for the revised AH-64A	Effects of microclimate cooling on physiology and	Medical aspects of cold weather operations: A handbook
workload prediction model, volume 1	performance while flying the UH-60 helicopter simulator	for medical officers
[AD-A254198] p 30 N93-10261	in NBC conditions in a controlled heat environment	[AD-A263559] p 336 N93-30588
Selective factors affecting rotary wing aviator	[AD-A258502] p 129 N93-20400	Field trial of caffeine on physical performance at altitude:
performance with symbology superimposed on night vision	In-flight field-of-view with ANVIS	An attempt to overcome the challenge
goggles [AD-A254983] p 35 N93-12508	[AD-A259905] p 235 N93-23992 Effects on physiology and performance of wearing the	[AD-A264260] p 337 N93-30894
An evaluation of crew coordination and performance	aviator NBC ensemble while flying the UH-60 helicopter	An annotated bibliography of research involving women, conducted at the US Army Research Institute of
during a simulated UH-60 helicopter mission	flight simulator in a controlled heat environment	Environmental Medicine
[AD-A254984] p 35 N93-12509	[AD-A259909] p 235 N93-23995	[AD-A265497] p 360 N93-31917
Operator workload predictions for the revised AH-64A	Human visual limitations on suprathreshold contrast	Army Research Lab., Aberdeen Proving Ground, MD.
workload prediction model. Volume 2: Appendixes A	perception through ANVIS [AD-A259970] p 226 N93-24431	A study of the effects of lens focal length on remote
through H [AD-A254939] p 63 N93-12545	An automated method for determining mass properties	driver performance [AD-A263191] p 321 N93-28941
Human factors research in aircrew performance and	[AD-A259924] p 236 N93-24441	Arup (Ove) and Partners, London (England).
training: 1986-1991	The use of extended wear contact lenses in the aviation	Computer aided methods for simulating occupant
[AD-A254455] p 63 N93-12609	environment: An Army-wide study [AD-A260938] p 255 N93-26218	response to impact using OASYS DYNA3D
The effects of superimposing symbology on a simulated	Interpupillary and vertex distance effects on field-of-view	p 142 N93-19666
night vision goggle display	and acuity with ANVIS	Australian Inst. of Nuclear Science and Engineering,
[AD-A263458] p 354 N93-30590	[AD-A261259] p 268 N93-26265	Lucas Heights. The Thirteenth AINSE Radiation Biology Conference:
Anacapa Sciences, Inc., Santa Barbara, CA. Long-duration isolation and confinement: Human factors	The use of electrophysiological and cognitive variables in the assessment of degradation during periods of	Conference handbook
		[DE93-609131] p 338 N93-31225
issues and research requirements p 100 N93-16808	sustained wakefulness [AD-A263033] p 283 N93-27923	
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep	[DE93-609131] p 338 N93-31225
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266	
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment)	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England).	[DE93-609131] p 338 N93-31225
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266	[DE93-609131] p 338 N93-31225
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment)	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A25525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA.	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA.	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH.
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A25525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21)
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustls, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS.	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217 Evaluation of an electronics system concept for
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21)
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interlace system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic manikin p 142 N93-19667	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A253394] p 30 N93-10288
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytlcs, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic manikin p 142 N93-19667 Architectural Horizon, Makkah (Saudi Arabla).	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255553] p 53 N93-14556 Army Environmental Hyglene Agency, Aberdeen Proving Ground, MD.	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21)
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A25525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic manikin Prefabricated foldable lunar base modular systems for	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustls, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255553] p 53 N93-14556 Army Environmental Hygiene Agency, Aberdeen Proving Ground, MD. Procedures for the diagnostic dose resistance test kits	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A253394] p 30 N93-10288 Evaluation of multilayer mask concept for RESPO 21
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applled Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic manikin Prefabricated foldable lunar base modular systems for habitats, offices, and laboratories p 106 N93-17444	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavemorth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255553] p 53 N93-14556 Army Environmental Hyglene Agency, Aberdeen Proving Ground, MD. Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A253394] p 30 N93-10288 Evaluation of multilayer mask concept for RESPO 21 [AD-A253392] p 33 N93-12079 Human factors design principles for instrument approach procedure charts. Volume 1: Readability
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A25525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic marikin Architectural Horizon, Makkah (Saudi Arabia). Prefabricated foldable lunar base modular systems for habitats, offices, and laboratories p 106 N93-17444 Argonne National Lab., IL. Effects of maglew-spectrum magnetic field exposure on	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustls, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255553] p 53 N93-14556 Army Environmental Hygiene Agency, Aberdeen Proving Ground, MD. Procedures for the diagnostic dose resistance test kits	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A253394] p 30 N93-10288 Evaluation of multilayer mask concept for RESPO 21 [AD-A253392] p 33 N93-12079 Human factors design principles for instrument approach procedure charts. Volume 1: Readability [AD-A257234] p 104 N93-15968
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 55 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic manikin Architectural Horizon, Makkah (Saudi Arabla). Prefabricated foldable lunar base modular systems for habitats, offices, and laboratories p 106 N93-17444 Argonne National Lab., IL. Effects of maglev-spectrum magnetic field exposure on CEM T-lymphoblastoid human cell growth and	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255553] p 53 N93-14556 Army Environmental Hyglene Agency, Aberdeen Proving Ground, MD. Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored products [AD-A255224] p 51 N93-13941 Army Intelligence Center and School, Fort Huachuca,	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A253394] p 30 N93-10288 Evaluation of multilayer mask concept for RESPO 21 [AD-A253392] p 33 N93-12079 Human factors design principles for instrument approach procedure charts. Volume 1: Readability [AD-A257234] Bechtel National, Inc., San Francisco, CA.
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic manikin p 142 N93-19667 Architectural Horizon, Makkah (Saudi Arabia). Prefabricated foldable lunar base modular systems for habitats, offices, and laboratories p 106 N93-17444 Argonne National Lab., IL. Effects of maglev-spectrum magnetic field exposure on CEM T-tymphoblastoid human cell growth and differentiation	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255553] p 53 N93-14556 Army Environmental Hyglene Agency, Aberdeen Proving Ground, MD. Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored products [AD-A255224] p 51 N93-13941 Army Intelligence Center and School, Fort Huachuca, AZ.	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A253394] p 30 N93-10288 Evaluation of multilayer mask concept for RESPO 21 [AD-A253392] p 33 N93-12079 Human factors design principles for instrument approach procedure charts. Volume 1: Readability [AD-A257234] p 104 N93-15968
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic manikin p 142 N93-19667 Architectural Horizon, Makkah (Saudi Arabia). Prefabricated foldable lunar base modular systems for habitats, offices, and laboratories p 106 N93-17444 Argonne National Lab., IL. Effects of maglev-spectrum magnetic field exposure on CEM T-tymphoblastoid human cell growth and differentiation [DE92-041134] p 96 N93-16552	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255553] p 53 N93-14556 Army Environmental Hygiene Agency, Aberdeen Proving Ground, MD. Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored products [AD-A255224] p 51 N93-13941 Army Intelligence Center and School, Fort Huachuca, AZ. United States Army space experiment 601	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A253394] p 30 N93-10288 Evaluation of multilayer mask concept for RESPO 21 [AD-A253392] p 33 N93-12079 Human factors design principles for instrument approach procedure charts. Volume 1: Readability [AD-A257234] p 104 N93-15968 Bechtel National, Inc., San Francisco, CA. Oxygen production on the Lunar materials processing
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-19084] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic manikin Architectural Horizon, Makkah (Saudi Arabla). Prefabricated foldable lunar base modular systems for habitats, offices, and laboratories p 106 N93-17444 Argonne National Lab., IL. Effects of maglev-spectrum magnetic field exposure on CEM T-tymphoblastoid human cell growth and differentiation [DE92-041134] p 96 N93-16552 Primary charge separation in isolated photosystem 2	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255553] p 53 N93-14556 Army Environmental Hyglene Agency, Aberdeen Proving Ground, MD. Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored products [AD-A255224] p 51 N93-13941 Army Intelligence Center and School, Fort Huachuca, AZ.	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A253394] p 30 N93-10288 Evaluation of multilayer mask concept for RESPO 21 [AD-A253392] p 33 N93-12079 Human factors design principles for instrument approach procedure charts. Volume 1: Readability [AD-A257234] Bechtel National, Inc., San Francisco, CA. Oxygen production on the Lunar materials processing frontier p 315 N93-27967 Belgian Air Force, Brussels. Allergy screening and follow-up in student pilots of the
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic manikin p 142 N93-19667 Architectural Horizon, Makkah (Saudi Arabia). Prefabricated foldable lunar base modular systems for habitats, offices, and laboratories p 106 N93-17444 Argonne National Lab., IL. Effects of maglev-spectrum magnetic field exposure on CEM T-tymphoblastoid human cell growth and differentiation [DE92-041134] p 96 N93-16552	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255553] Army Environmental Hyglene Agency, Aberdeen Proving Ground, MD. Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored products [AD-A255224] p 51 N93-13941 Army Intelligence Center and School, Fort Huachuca, AZ. United States Army space experiment 601 [AD-A261460] p 260 N93-26353	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A253394] p 30 N93-10217 Evaluation of multilayer mask concept for RESPO 21 [AD-A253392] p 30 N93-12079 Human factors design principles for instrument approach procedure charts. Volume 1: Readability [AD-A257234] p 104 N93-15968 Bechtel National, Inc., San Francisco, CA. Oxygen production on the Lunar materials processing frontier p 315 N93-27967 Belglan Air Force, Brussels. Allergy screening and follow-up in student pilots of the Belgian Air Force (BAF) p 21 N93-11316
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A25704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic marikin Architectural Horizon, Makkah (Saudi Arabia). Prefabricated foldable lunar base modular systems for habitats, offices, and laboratories p 106 N93-17444 Argonne National Lab., IL. Effects of maglew-spectrum magnetic field exposure on CEM T-lymphoblastoid human cell growth and differentiation [DE92-041134] p 96 N93-16552 Primary charge separation in isolated photosystem 2 reaction centers [DE92-041128] p 82 N93-17189 Nonlinear optical properties of porphyrin and chlorophyll	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255553] p 53 N93-14556 Army Environmental Hyglene Agency, Aberdeen Proving Ground, MD. Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored products [AD-A255224] p 51 N93-13941 Army Intelligence Center and School, Fort Huachuca, AZ. United States Army space experiment 601 [AD-A261460] p 260 N93-26353 Army Medical Center, Fort Gordon, GA. Metabolic factors influencing myocardial recovery from acidosis (CiC3)	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A253394] p 30 N93-10288 Evaluation of multilayer mask concept for RESPO 21 [AD-A253392] p 33 N93-12079 Human factors design principles for instrument approach procedure charts. Volume 1: Readability [AD-A257234] p 104 N93-15968 Bechtel National, Inc., San Francisco, CA. Oxygen production on the Lunar materials processing frontier p 315 N93-27967 Belgian Air Force, Brussels. Allergy screening and follow-up in student pilots of the Belgian Air Force (BAF) p 21 N93-11316 Biological parameters and cardiovascular risk factors
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applled Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic manikin Prefabricated foldable lunar base modular systems for habitats, offices, and laboratories p 106 N93-17444 Argonne National Lab., IL. Effects of maglev-spectrum magnetic field exposure on CEM T-lymphoblastoid human cell growth and differentiation [DE92-041134] p 96 N93-16552 Primary charge separation in isolated photosystem 2 reaction centers [DE92-041128] p 82 N93-17189 Nonlinear optical properties of porphyrin and chlorophyll dimers studied by degenerated four wave mixing	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255553] p 53 N93-14556 Army Environmental Hygiene Agency, Aberdeen Proving Ground, MD. Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored products [AD-A255224] p 51 N93-13941 Army Intelligence Center and School, Fort Huachuca, AZ. United States Army space experiment 601 [AD-A261460] p 260 N93-26353 Army Medical Center, Fort Gordon, GA. Metabolic factors influencing myocardial recovery from acidosis (CiC3) [AD-A252376] p 14 N93-10796	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A253394] p 30 N93-10288 Evaluation of multilayer mask concept for RESPO 21 [AD-A253394] p 30 N93-12079 Human factors design principles for instrument approach procedure charts. Volume 1: Readability [AD-A257234] p 104 N93-15968 Bechtel National, Inc., San Francisco, CA. Oxygen production on the Lunar materials processing frontier p 315 N93-27967 Belglan Air Force, Brussels. Allergy screening and follow-up in student pilots of the Belgian Air Force (BAF) p 21 N93-11316 Biological parameters and cardiovascular risk factors with the flying personnel of the Belgian Armed Forces
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic manikin p 142 N93-19667 Architectural Horizon, Makkah (Saudi Arabia). Prefabricated foldable lunar base modular systems for habitats, offices, and laboratories p 106 N93-17444 Argonne National Lab., IL. Effects of maglev-spectrum magnetic field exposure on CEM T-tymphoblastoid human cell growth and differentiation [DE92-041134] p 96 N93-16552 Primary charge separation in isolated photosystem 2 reaction centers [DE92-041128] p 88 N93-17189 Nonlinear optical properties of porphyrin and chlorophyll dimers studied by degenerated four wave mixing [DE93-006411] p 210 N93-24028	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A25553] p 53 N93-14556 Army Environmental Hygiene Agency, Aberdeen Proving Ground, MD. Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored products [AD-A255224] p 51 N93-13941 Army Intelligence Center and School, Fort Huachuca, AZ. United States Army space experiment 601 [AD-A251460] p 260 N93-26353 Army Medical Center, Fort Gordon, GA. Metabolic factors influencing myocardial recovery from acidosis (CiC3) [AD-A252376] p 14 N93-10796 Army Natick Research and Development Command,	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A253394] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A253394] p 30 N93-10288 Evaluation of multilayer mask concept for RESPO 21 [AD-A253392] p 33 N93-12079 Human factors design principles for instrument approach procedure charts. Volume 1: Readability [AD-A257234] p 104 N93-15968 Bechtel National, Inc., San Francisco, CA. Oxygen production on the Lunar materials processing frontier p 315 N93-27967 Belglan Air Force, Brussels. Allergy screening and follow-up in student pilots of the Belgian Air Force (BAF) p 21 N93-11316 Biological parameters and cardiovascular risk factors with the flying personnel of the Belgian Armed Forces
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A25704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-19084] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic manikin Architectural Horizon, Makkah (Saudi Arabia). Prefabricated foldable lunar base modular systems for habitats, offices, and laboratories p 106 N93-17444 Argonne National Lab., IL. Effects of maglev-spectrum magnetic field exposure on CEM T-tymphoblastoid human cell growth and differentiation [DE92-041134] p 96 N93-16552 Primary charge separation in isolated photosystem 2 reaction centers [DE92-041128] p 82 N93-17189 Nonlinear optical properties of porphyrin and chlorophyll dimers studied by degenerated four wave mixing [DE93-006411] p 210 N93-24028	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255553] p 53 N93-14556 Army Environmental Hygiene Agency, Aberdeen Proving Ground, MD. Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored products [AD-A255224] p 51 N93-13941 Army Intelligence Center and School, Fort Huachuca, AZ. United States Army space experiment 601 [AD-A261460] p 260 N93-26353 Army Medical Center, Fort Gordon, GA. Metabolic factors influencing myocardial recovery from acidosis (CiC3) [AD-A252376] p 14 N93-10796	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A253394] p 30 N93-10288 Evaluation of multilayer mask concept for RESPO 21 [AD-A253394] p 30 N93-12079 Human factors design principles for instrument approach procedure charts. Volume 1: Readability [AD-A257234] p 104 N93-15968 Bechtel National, Inc., San Francisco, CA. Oxygen production on the Lunar materials processing frontier p 315 N93-27967 Belglan Air Force, Brussels. Allergy screening and follow-up in student pilots of the Belgian Air Force (BAF) p 21 N93-11316 Biological parameters and cardiovascular risk factors with the flying personnel of the Belgian Armed Forces
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic manikin p 142 N93-19667 Architectural Horizon, Makkah (Saudi Arabia). Prefabricated foldable lunar base modular systems for habitats, offices, and laboratories p 106 N93-17444 Argonne National Lab., IL. Effects of maglev-spectrum magnetic field exposure on CEM T-tymphoblastoid human cell growth and differentiation [DE92-041134] p 96 N93-16552 Primary charge separation in isolated photosystem 2 reaction centers [DE92-041128] p 82 N93-17189 Nonlinear optical properties of porphyrin and chlorophyll dimers studied by degenerated four wave mixing [DE93-006411] p 210 N93-24028 Artzona Univ, Tucson. Thermal control systems for low-temperature heat rejection on a lunar base	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255553] p 53 N93-14556 Army Environmental Hygiene Agency, Aberdeen Proving Ground, MD. Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored products [AD-A255224] p 51 N93-13941 Army Intelligence Center and School, Fort Huachuca, AZ. United States Army space experiment 601 [AD-A251460] p 260 N93-26353 Army Medical Center, Fort Gordon, GA. Metabolic factors influencing myocardial recovery from acidosis (CiC3) [AD-A252376] p 14 N93-10796 Army Natick Research and Development Command, MA. Evaluation of two microclimate cooling air vests on a heated mannequin	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A253394] p 30 N93-10217 Evaluation of multilayer mask concept for RESPO 21 [AD-A253394] p 30 N93-10279 Human factors design principles for instrument approach procedure charts. Volume 1: Readability [AD-A257234] p 104 N93-15968 Bechtel National, Inc., San Francisco, CA. Oxygen production on the Lunar materials processing frontier p 315 N93-27967 Belglan Air Force, Brussels. Allergy screening and follow-up in student pilots of the Belgian Air Force (BAF) p 21 N93-11316 Biological parameters and cardiovascular risk factors with the flying personnel of the Belgian Armed Forces p 370 N93-32260 Bevill State Community Coll., Fayette, AL. Development of a pyrolysis waste recovery model with designs, test plans, and applications for space-based
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A25525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A25704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic marikin Architectural Horizon, Makkah (Saudi Arabia). Prefabricated foldable lunar base modular systems for habitats, offices, and laboratories p 106 N93-17444 Argonne National Lab., IL. Effects of maglew-spectrum magnetic field exposure on CEM T-tymphoblastoid human cell growth and differentiation [DE92-041134] p 96 N93-16552 Primary charge separation in isolated photosystem 2 reaction centers [DE92-0411128] p 82 N93-17189 Nonlinear optical properties of porphyrin and chlorophyll dimers studied by degenerated four wave mixing [DE93-006411] Arzona Univ., Tucson. Thermal control systems for low-temperature heat rejection on a lunar base [NASA-CR-191286] p 65 N93-13717	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenorth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255553] p 53 N93-14556 Army Environmental Hyglene Agency, Aberdeen Proving Ground, MD. Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored products [AD-A255224] p 51 N93-13941 Army Intelligence Center and School, Fort Huachuca, AZ. United States Army space experiment 601 [AD-A261460] p 260 N93-26353 Army Medical Center, Fort Gordon, GA. Metabolic factors influencing myocardial recovery from acidosis (CiC3) [AD-A252376] p 14 N93-10796 Army Natick Research and Development Command, MA. Evaluation of two microclimate cooling air vests on a heated mannequin	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A25393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A25394] p 30 N93-10217 Evaluation of multilayer mask concept for RESPO 21 [AD-A253994] p 33 N93-12079 Human factors design principles for instrument approach procedure charts. Volume 1: Readability [AD-A257234] p 104 N93-15968 Bechtel National, Inc., San Francisco, CA. Coxygen production on the Lunar materials processing frontier p 315 N93-27967 Belgian Air Force, Brussels. Allergy screening and follow-up in student pilots of the Belgian Air Force (BAF) p 21 N93-11316 Biological parameters and cardiovascular risk factors with the flying personnel of the Belgian Armed Forces p 370 N93-2260 Bevill State Community Coll., Fayette, AL. Development of a pyrolysis waste recovery model with designs, test plans, and applications for space-based habitats
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic manikin Prefabricated foldable lunar base modular systems for habitats, offices, and laboratories p 106 N93-17444 Argonne National Lab., IL. Effects of maglev-spectrum magnetic field exposure on CEM T-lymphoblastoid human cell growth and differentiation [DE92-041124] p 96 N93-16552 Primary charge separation in isolated photosystem 2 reaction centers [DE92-041128] p 82 N93-17189 Nonlinear optical properties of porphyrin and chlorophyll dimers studied by degenerated four wave mixing [DE93-006411] p 210 N93-24028 Artzona Univ., Tucson. Thermal control systems for low-temperature heat rejection on a lunar base [NASA-CR-191286] p 65 N93-13717 Closed ecological systems: From test tubes to Earth's	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eastis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255553] p 53 N93-14556 Army Environmental Hygiene Agency, Aberdeen Proving Ground, MD. Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored products [AD-A255224] p 51 N93-13941 Army Intelligence Center and School, Fort Huachuca, AZ. United States Army space experiment 601 [AD-A261460] p 260 N93-26353 Army Medical Center, Fort Gordon, GA. Metabolic factors influencing myocardial recovery from acidosis (CiC3) [AD-A252376] p 14 N93-10796 Army Natick Research and Development Command, MA. Evaluation of two microclimate cooling air vests on a heated mannequin [AD-A259410] p 194 N93-21269 Assessing patterns of change in anthropometric	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A253394] p 30 N93-10288 Evaluation of multilayer mask concept for RESPO 21 [AD-A253392] p 33 N93-12079 Human factors design principles for instrument approach procedure charts. Volume 1: Readability [AD-A257234] p 104 N93-15968 Bechtel National, Inc., San Francisco, CA. Oxygen production on the Lunar materials processing frontier Belgian Air Force, Brussels. Allergy screening and follow-up in student pilots of the Belgian Air Force (BAF) p 21 N93-11316 Biological parameters and cardiovascular risk factors with the flying personnel of the Belgian Armed Forces p 370 N93-32260 Bevill State Community Coll., Fayette, AL. Development of a pyrolysis waste recovery model with designs, test plans, and applications for space-based habitats Biokinetics and Associates Ltd., Ottawa (Ontario).
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic manikin Prefabricated foldable lunar base modular systems for habitats, offices, and laboratories p 106 N93-17444 Argonne National Lab., IL. Effects of maglev-spectrum magnetic field exposure on CEM T-tymphoblastoid human cell growth and differentiation [DE92-041134] p 96 N93-16552 Primary charge separation in isolated photosystem 2 reaction centers [DE92-041128] p 98 N93-17189 Nonlinear optical properties of porphyrin and chlorophyll dimers studied by degenerated four wave mixing [DE93-006411] p 210 N93-24028 Artzona Univ, Tucson. Thermal control systems for low-temperature heat rejection on a lunar base [NASA-CR-191286] p 65 N93-13717 Closed ecological systems: From test tubes to Earth's biosphere p 315 N93-27976	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenorth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255553] p 53 N93-14556 Army Environmental Hyglene Agency, Aberdeen Proving Ground, MD. Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored products [AD-A255224] p 51 N93-13941 Army Intelligence Center and School, Fort Huachuca, AZ. United States Army space experiment 601 [AD-A261460] p 260 N93-26353 Army Medical Center, Fort Gordon, GA. Metabolic factors influencing myocardial recovery from acidosis (CiC3) [AD-A252376] p 14 N93-10796 Army Natick Research and Development Command, MA. Evaluation of two microclimate cooling air vests on a heated mannequin	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A253394] p 30 N93-10288 Evaluation of multilayer mask concept for RESPO 21 [AD-A253392] p 33 N93-12079 Human factors design principles for instrument approach procedure charts. Volume 1: Readability [AD-A257234] p 104 N93-15968 Bechtel National, Inc., San Francisco, CA. Oxygen production on the Lunar materials processing frontier p 315 N93-27967 Belglan Air Force, Brussels. Allergy screening and follow-up in student pilots of the Belgian Air Force (BAF) p 21 N93-11316 Biological parameters and cardiovascular risk factors with the flying personnel of the Belgian Armed Forces p 370 N93-32260 Bevill State Community Coll., Fayette, AL Development of a pyrolysis waste recovery model with designs, test plans, and applications for space-based habitats p 267 N93-26076 Blokinetics and Associates Ltd., Ottawa (Ontario). An improved anthropometric test device
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic manikin Prefabricated foldable lunar base modular systems for habitats, offices, and laboratories p 106 N93-17444 Argonne National Lab., IL. Effects of maglev-spectrum magnetic field exposure on CEM T-lymphoblastoid human cell growth and differentiation [DE92-041124] p 96 N93-16552 Primary charge separation in isolated photosystem 2 reaction centers [DE92-041128] p 82 N93-17189 Nonlinear optical properties of porphyrin and chlorophyll dimers studied by degenerated four wave mixing [DE93-006411] p 210 N93-24028 Artzona Univ., Tucson. Thermal control systems for low-temperature heat rejection on a lunar base [NASA-CR-191286] p 65 N93-13717 Closed ecological systems: From test tubes to Earth's	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eastis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255553] p 53 N93-14556 Army Environmental Hygiene Agency, Aberdeen Proving Ground, MD. Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored products [AD-A255224] p 51 N93-13941 Army Intelligence Center and School, Fort Huachuca, AZ. United States Army space experiment 601 [AD-A261460] p 260 N93-26353 Army Medical Center, Fort Gordon, GA. Metabolic factors influencing myocardial recovery from acidosis (CiC3) [AD-A25376] p 14 N93-10796 Army Natick Research and Development Command, MA. Evaluation of two microclimate cooling air vests on a heated mannequin [AD-A259410] p 194 N93-21269 Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A253394] p 30 N93-10288 Evaluation of multilayer mask concept for RESPO 21 [AD-A253392] p 33 N93-12079 Human factors design principles for instrument approach procedure charts. Volume 1: Readability [AD-A257234] p 104 N93-15968 Bechtel National, Inc., San Francisco, CA. Oxygen production on the Lunar materials processing frontier Belgian Air Force, Brussels. Allergy screening and follow-up in student pilots of the Belgian Air Force (BAF) p 21 N93-11316 Biological parameters and cardiovascular risk factors with the flying personnel of the Belgian Armed Forces p 370 N93-32260 Bevill State Community Coll., Fayette, AL. Development of a pyrolysis waste recovery model with designs, test plans, and applications for space-based habitats Biokinetics and Associates Ltd., Ottawa (Ontario).
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264755] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic manikin Architectural Horizon, Makkah (Saudi Arabia). Prefabricated foldable lunar base modular systems for habitats, offices, and laboratories p 106 N93-17444 Argonne National Lab., IL. Effects of maglev-spectrum magnetic field exposure on CEM T-tymphoblastoid human cell growth and differentiation [DE92-041134] p 96 N93-16552 Primary charge separation in isolated photosystem 2 reaction centers [DE92-041128] p 98 N93-17189 Nonlinear optical properties of porphyrin and chlorophyll dimers studied by degenerated four wave mixing [DE93-006411] p 210 N93-24028 Arzona Univ., Tucson. Thermal control systems for low-temperature heat rejection on a lunar base [NASA-CR-191286] p 65 N93-13717 Closed ecological systems: From test tubes to Earth's biosphere p 315 N93-27976 The chronic effects of jP-8 jet fuel exposure on the lungs [AD-A264162] p 334 N93-30153	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255553] p 53 N93-14556 Army Environmental Hygiene Agency, Aberdeen Proving Ground, MD. Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored products [AD-A255224] p 51 N93-13941 Army Intelligence Center and School, Fort Huachuca, AZ. United States Army space experiment 601 [AD-A251460] p 260 N93-26353 Army Medical Center, Fort Gordon, GA. Metabolic factors influencing myocardial recovery from acidosis (CiC3) [AD-A25376] p 14 N93-10796 Army Natick Research and Development Command, MA. Evaluation of two microclimate cooling air vests on a heated mannequin [AD-A259410] p 194 N93-21269 Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 Anthropometry of the foot and lower leg of U.S. Army	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A253394] p 30 N93-10288 Evaluation of multilayer mask concept for RESPO 21 [AD-A253392] p 33 N93-12079 Human factors design principles for instrument approach procedure charts. Volume 1: Readability [AD-A257234] p 104 N93-15968 Bechtel National, Inc., San Francisco, CA. Oxygen production on the Lunar materials processing frontier p 315 N93-27967 Belglan Air Force, Brussels. Allergy screening and follow-up in student pilots of the Belgian Air Force (BAF) p 21 N93-11316 Biological parameters and cardiovascular risk factors with the flying personnel of the Belgian Armed Forces p 370 N93-32260 Bevill State Community Coll., Fayette, AL. Development of a pyrolysis waste recovery model with designs, test plans, and applications for space-based habitats p 267 N93-26076 Blokinetics and Associates Ltd., Ottawa (Ontario). An improved anthropometric test device p 143 N93-19670 Blonetics Corp., Cocoa Beach, FL. Characterization of the water soluble component of
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A25525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A25704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic marikin Architectural Horizon, Makkah (Saudi Arabia). Prefabricated foldable lunar base modular systems for habitats, offices, and laboratories p 106 N93-17444 Argonne National Lab., IL. Effects of maglew-spectrum magnetic field exposure on CEM T-tymphoblastoid human cell growth and differentiation [DE92-041134] p 96 N93-16552 Primary charge separation in isolated photosystem 2 reaction centers [DE92-0411128] p 82 N93-17189 Nonlinear optical properties of porphyrin and chlorophyll dimers studied by degenerated four wave mixing [DE93-006411] p 210 N93-24028 Artzona Univ., Tucson. Thermal control systems for low-temperature heat rejection on a tunar base [NASA-CR-191286] p 65 N93-13717 Closed ecological systems: From test tubes to Earth's biosphere p 315 N93-27976 The chronic effects of jP-8 jet fuel exposure on the lungs [AD-A264162] p 334 N93-30153 Arkansas Univ., Fayetteville.	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator steep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255553] p 53 N93-14556 Army Environmental Hyglene Agency, Aberdeen Proving Ground, MD. Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored products [AD-A255224] p 51 N93-13941 Army Intelligence Center and School, Fort Huachuca, AZ. United States Army space experiment 601 [AD-A25124] p 51 N93-13941 Army Medical Center, Fort Gordon, GA. Metabolic factors influencing myocardial recovery from acidosis (CiC3) [AD-A252376] p 14 N93-10796 Army Natick Research and Development Command, MA. Evaluation of two microclimate cooling air vests on a heated mannequin [AD-A259410] p 194 N93-21269 Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 Anthropometry of the foot and lower leg of U.S. Army soldiers: Fort Jackson, SC	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A25393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A25394] p 30 N93-10217 Evaluation of multilayer mask concept for RESPO 21 [AD-A253992] p 33 N93-12079 Human factors design principles for instrument approach procedure charts. Volume 1: Readability [AD-A257234] p 104 N93-15968 Bechtel National, Inc., San Francisco, CA. Oxygen production on the Lunar materials processing frontier p 315 N93-27967 Belgian Air Force, Brussels. Allergy screening and follow-up in student pilots of the Belgian Air Force (BAF) p 21 N93-11316 Biological parameters and cardiovascular risk factors with the flying personnel of the Belgian Armed Forces p 370 N93-2260 Bevill State Community Coll., Fayette, AL. Development of a pyrolysis waste recovery model with designs, test plans, and applications for space-based habitats p 267 N93-26076 Blokinetics and Associates Ltd., Ottawa (Ontario). An improved anthropometric test device p 143 N93-19670 Bionetics Corp., Cocoa Beach, FL. Characterization of the water soluble component of inedible residue from candidate CELSS crops
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A25704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic manikin Architectural Horizon, Makkah (Saudi Arabla). Prefabricated foldable lunar base modular systems for habitats, offices, and laboratories p 106 N93-17444 Argonne National Lab., IL. Effects of maglev-spectrum magnetic field exposure on CEM T-lymphoblastoid human cell growth and differentiation [DE92-041134] p 96 N93-16552 Primary charge separation in isolated photosystem 2 reaction centers [DE92-041128] p 82 N93-17189 Nonlinear optical properties of porphyrin and chlorophyll dimers studied by degenerated four wave mixing [DE93-006411] p 210 N93-24028 Artzona Univ., Tucson. Thermal control systems for low-temperature heat rejection on a tunar base [NASA-CR-191286] p 65 N93-13717 Closed ecological systems: From test tubes to Earth's biosphere p 315 N93-27976 The chronic effects of jP-8 jet fuel exposure on the lungs [AD-A264162] p 34 N93-30153 Arkansas Univ., Fayetteville. Biological conversion of synthesis gas culture	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eastis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255553] Army Environmental Hyglene Agency, Aberdeen Proving Ground, MD. Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored products [AD-A255224] p 51 N93-13941 Army Intelligence Center and School, Fort Huachuca, AZ. United States Army space experiment 601 [AD-A261460] p 260 N93-26353 Army Medical Center, Fort Gordon, GA. Metabolic factors influencing myocardial recovery from acidosis (CiC3) [AD-A25376] p 14 N93-10796 Army Natick Research and Development Command, MA. Evaluation of two microclimate cooling air vests on a heated mannequin [AD-A259410] p 194 N93-21269 Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A26869] p 265 N93-25628 Anthropometry of the foot and lower leg of U.S. Army soldiers: Fort Jackson, SC [AD-A261405] p 268 N93-26404	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A253394] p 30 N93-10288 Evaluation of multilayer mask concept for RESPO 21 [AD-A253392] p 30 N93-10288 Evaluation of multilayer mask concept for RESPO 21 [AD-A253392] p 30 N93-10288 Evaluation of multilayer mask concept for RESPO 21 [AD-A253392] p 104 N93-15968 Bechtel National, Inc., San Francisco, CA. Oxygen production on the Lunar materials processing frontier p 315 N93-27967 Belgian Air Force, Brussels. Allergy screening and follow-up in student pilots of the Belgian Air Force (BAF) p 21 N93-11316 Biological parameters and cardiovascular risk factors with the flying personnel of the Belgian Armed Forces p 370 N93-32260 Bevill State Community Coll., Fayette, AL. Development of a pyrolysis waste recovery model with designs, test plans, and applications for space-based habitats p 267 N93-26076 Biokinetics and Associates Ltd., Ottawa (Ontario). An improved anthropometric test device p 143 N93-19670 Bionetics Corp., Cocoa Beach, FL. Characterization of the water soluble component of inedible residue from candidate CELSS crops [NASA-TM-107557] p 139 N93-18111
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A257704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic manikin Architectural Horizon, Makkah (Saudi Arabia). Prefabricated foldable lunar base modular systems for habitats, offices, and laboratories p 106 N93-17444 Argonne National Lab., IL. Effects of maglev-spectrum magnetic field exposure on CEM T-tymphoblastoid human cell growth and differentiation [DE92-041134] p 96 N93-16552 Primary charge separation in isolated photosystem 2 reaction centers [DE92-041128] p 82 N93-17189 Nonlinear optical properties of porphyrin and chlorophyll dimers studied by degenerated four wave mixing [DE93-006411] p 210 N93-24028 Artansa Univ., Tucson. Thermal control systems for low-temperature heat rejection on a lunar base [NASA-CR-191286] p 65 N93-13717 Closed ecological systems: From test tubes to Earth's biosphere p 315 N93-27976 The chronic effects of jP-8 jet tuel exposure on the lungs [AD-A264162] p 34 N93-30153 Arkansas Univ., Fayetteville. Biological conversion of synthesis gas culture development	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator steep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255553] p 53 N93-14556 Army Environmental Hyglene Agency, Aberdeen Proving Ground, MD. Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored products [AD-A255224] p 51 N93-13941 Army Intelligence Center and School, Fort Huachuca, AZ. United States Army space experiment 601 [AD-A251460] p 260 N93-26353 Army Medical Center, Fort Gordon, GA. Metabolic factors influencing myocardial recovery from acidosis (CiC3) [AD-A252376] p 14 N93-10796 Army Natick Research and Development Command, MA. Evaluation of two microclimate cooling air vests on a heated mannequin [AD-A259410] p 194 N93-21269 Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1945-1988 [AD-A260869] p 265 N93-25628 Anthropometry of the foot and lower leg of U.S. Army soldiers: Fort Jackson, SC [AD-A261405] p 268 N93-26404 The Environmental Symptoms Questionnaire (ESQ): Development and application	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A25393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A25394] p 30 N93-10217 Evaluation of multilayer mask concept for RESPO 21 [AD-A253992] p 33 N93-12079 Human factors design principles for instrument approach procedure charts. Volume 1: Readability [AD-A257234] p 104 N93-15968 Bechtel National, Inc., San Francisco, CA. Oxygen production on the Lunar materials processing frontier p 315 N93-27967 Belgian Air Force, Brussels. Allergy screening and follow-up in student pilots of the Belgian Air Force (BAF) p 21 N93-11316 Biological parameters and cardiovascular risk factors with the flying personnel of the Belgian Armed Forces p 370 N93-2260 Bevill State Community Coll., Fayette, AL. Development of a pyrolysis waste recovery model with designs, test plans, and applications for space-based habitats p 267 N93-26076 Blokinetics and Associates Ltd., Ottawa (Ontario). An improved anthropometric test device p 143 N93-19670 Bionetics Corp., Cocoa Beach, FL. Characterization of the water soluble component of inedible residue from candidate CELSS crops
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A255525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A25704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 55 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic manikin Architectural Horizon, Makkah (Saudi Arabia). Prefabricated foldable lunar base modular systems for habitats, offices, and laboratories p 106 N93-17444 Argonne National Lab., IL. Effects of maglev-spectrum magnetic field exposure on CEM T-lymphoblastoid human cell growth and differentiation [DE92-041134] p 96 N93-16552 Primary charge separation in isolated photosystem 2 reaction centers [DE92-041128] p 82 N93-17189 Nontinear optical properties of porphyrin and chlorophyll dimers studied by degenerated four wave mixing [DE93-006411] p 210 N93-24028 Artzona Univ., Tucson. Thermal control systems for low-temperature heat rejection on a tunar base [NASA-CR-191286] p 65 N93-13717 Closed ecological systems: From test tubes to Earth's biosphere p 315 N93-27976 The chronic effects of jP-8 jet fuel exposure on the lungs [AD-A264162] p 34 N93-30153 Arkansas Univ., Fayetteville. Biological conversion of synthesis gas culture development [DE92-001279] p 6 N93-12482	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator sleep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength IAD-A255553] p 53 N93-14556 Army Environmental Hyglene Agency, Aberdeen Proving Ground, MD. Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored products [AD-A255224] p 51 N93-13941 Army Intelligence Center and School, Fort Huachuca, AZ. United States Army space experiment 601 [AD-A2561460] p 260 N93-26353 Army Medical Center, Fort Gordon, GA. Metabolic factors influencing myocardial recovery from acidosis (CiC3) [AD-A252376] p 14 N93-10796 Army Natick Research and Development Command, MA. Evaluation of two microclimate cooling air vests on a heated mannequin [AD-A259410] p 194 N93-21269 Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 Anthropometry of the foot and lower leg of U.S. Army soldiers: Fort Jackson, SC [AD-A261405] p 268 N93-26404 The Environmental Symptoms Questionnaire (ESQ): Development and application [AD-A264127] p 335 N93-30196	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A253393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A253394] p 30 N93-10288 Evaluation of multilayer mask concept for RESPO 21 [AD-A253392] p 33 N93-12079 Human factors design principles for instrument approach procedure charts. Volume 1: Readability [AD-A257234] p 104 N93-15968 Bechtel National, Inc., San Francisco, CA. Oxygen production on the Lunar materials processing frontier p 315 N93-27967 Belgian Air Force, Brussels. Allergy screening and follow-up in student pilots of the Belgian Air Force (BAF) p 21 N93-11316 Biological parameters and cardiovascular risk factors with the flying personnel of the Belgian Armed Forces p 370 N93-32260 Bevill State Community Coll., Fayette, AL. Development of a pyrolysis waste recovery model with designs, test plans, and applications for space-based habitats p 267 N93-26076 Biokinetics and Associates Ltd., Ottawa (Ontario). An improved anthropometric test device p 143 N93-19670 Bionetics Corp., Cocoa Beach, FL. Characterization of the water soluble component of inedible residue from candidate CELSS crops [NSA-TM-107557] p 139 N93-18111 Biospherical Instruments, Inc., San Diego, CA. New approaches to the measurement of chlorophyll, related pigments and productivity in the sea
issues and research requirements p 100 N93-16808 Analysis and Technology, Inc., New London, CT. Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard experiment) [AD-A25525] p 70 N93-14554 Evaluation of Night Vision Goggles (NVG) for maritime search and rescue [AD-A25704] p 107 N93-17697 Analytics, Inc., Willow Grove, PA. Ocular attention-sensing interface system [NASA-CR-190884] p 65 N93-13450 Application and validation of workload assessment techniques [AD-A264575] p 366 N93-32012 Applied Physics, Inc., Nanuet, NY. Design/development of an enhanced biodynamic marikin Architectural Horizon, Makkah (Saudi Arabia). Prefabricated foldable lunar base modular systems for habitats, offices, and laboratories p 106 N93-17444 Argonne National Lab., IL. Effects of maglew-spectrum magnetic field exposure on CEM T-tymphoblastoid human cell growth and differentiation [DE92-041134] p 96 N93-16552 Primary charge separation in isolated photosystem 2 reaction centers [DE92-041128] p 62 N93-17189 Nonlinear optical properties of porphyrin and chlorophyll dimers studied by degenerated four wave mixing [DE93-06411] p 210 N93-24028 Arzona Univ., Tucson. Thermal control systems for low-temperature heat rejection on a lunar base [NASA-CR-191286] p 65 N93-13717 Closed ecological systems: From test tubes to Earth's biosphere p 315 N93-27976 The chronic effects of jP-8 jet fuel exposure on the lungs [AD-A264162] p 334 N93-30153 Arkansas Univ., Fayetteville. Biological conversion of synthesis gas culture development [DE92-001279] p 6 N93-12482	sustained wakefulness [AD-A263033] p 283 N93-27923 The effects of cockpit heat on aviator steep parameters p 371 N93-32266 Army Air Corps, Stockbridge (England). Disorientation and flight safety: A survey of UK Army aircrew p 133 N93-19680 Army Air Mobility Research and Development Lab., Fort Eustis, VA. Sound attenuation characteristics of the standard DH-132A and SPH-4 helmets worn in combination with standard issue earplugs [AD-A263011] p 350 N93-29406 Army Command and General Staff Coll., Fort Leavenworth, KS. A progressive resistance weight training program designed to improve the armor crewman's strength [AD-A255553] p 53 N93-14556 Army Environmental Hygiene Agency, Aberdeen Proving Ground, MD. Procedures for the diagnostic dose resistance test kits for mosquitoes, body lice, and beetle pests of stored products [AD-A255224] p 51 N93-13941 Army Intelligence Center and School, Fort Huachuca, AZ. United States Army space experiment 601 [AD-A251460] p 260 N93-26353 Army Medical Center, Fort Gordon, GA. Metabolic factors influencing myocardial recovery from acidosis (CiC3) [AD-A252376] p 14 N93-10796 Army Natick Research and Development Command, MA. Evaluation of two microclimate cooling air vests on a heated mannequin [AD-A259410] p 194 N93-21269 Assessing patterns of change in anthropometric dimensions: Secular trends of US Army females, 1946-1988 [AD-A260869] p 265 N93-25628 Anthropometry of the foot and lower leg of U.S. Army soldiers: Fort Jackson, SC [AD-A261405] p 268 N93-26404 The Environmental Symptoms Questionnaire (ESO): Development and application	Battelle Columbus Labs., Research Triangle Park, NC. Selection of personnel for stressful occupations: The potential utility of psychophysiological measures as selection tools [AD-A264571] p 363 N93-32011 Battelle Columbus Labs., OH. Evaluation of lightweight and low profile communications devices for Respiratory Protective system 21 (RESPO 21) [AD-A25393] p 30 N93-10217 Evaluation of an electronics system concept for Respiratory Protection system (RESPO 21) [AD-A25394] p 30 N93-10217 Evaluation of multilayer mask concept for RESPO 21 [AD-A253992] p 33 N93-12079 Human factors design principles for instrument approach procedure charts. Volume 1: Readability [AD-A257234] p 104 N93-15968 Bechtel National, Inc., San Francisco, CA. Coxygen production on the Lunar materials processing frontier p 315 N93-27967 Belgian Air Force, Brussels. Allergy screening and follow-up in student pilots of the Belgian Air Force (BAF) p 21 N93-11316 Biological parameters and cardiovascular risk factors with the flying personnel of the Belgian Armed Forces p 370 N93-2260 Bevill State Community Coll., Fayette, AL. Development of a pyrolysis waste recovery model with designs, test plans, and applications for space-based habitats p 267 N93-26076 Biokinetics and Associates Ltd., Ottawa (Ontario). An improved anthropometric test device p 143 N93-19670 Bionetics Corp., Cocoa Beach, FL. Characterization of the water soluble component of inedible residue from candidate CELSS crops [NASA-TM-107557] p 139 N93-18111 Biospherical Instruments, Inc., San Dlego, CA. New approaches to the measurement of chlorophyll,

Analysis of neural systems involved in modulation of

Applications of living systems theory to life in space p 105 N93-16865

California Univ., San Diego, La Jolla. Extrathalmic modulation of cortical function

Neural basis of motion perception [AD-A261452] p 283 N93-27654

p 53 N93-14782

p 260 N93-26349

memory storage [AD-A262418]

[AD-A255440]

California Univ., Los Angeles.

	Dele	
Biotronics Technologies, Inc., Waukesha, WI.	Comparative analytical study of evoked and event	Colorado State Univ., Fort Collins.
Transcutaneous Analyte Measuring Methods (TAMM),	related potentials as correlates of cognitive processes	Effects of spaceflight on the proliferation of jejunal
phase 2 [AD-A256327] p 54 N93-15192	[AD-A261388] p 261 N93-26446	mucosal cells
[AD-A256327] p 54 N93-15192 Transcutaneous analyte measuring methods	Wound healing and connective tissue metabolism: The	[NASA-CR-191303] p 51 N93-13449 Colorado Univ., Boulder.
[AD-A262861] p 333 N93-29509	role of hyperbaric oxygen therapy [AD-A262483] p 285 N93-28759	Immunology presentation at the 1990 NASA/NSF
Boeing Defense and Space Group, Huntsville, AL.	Camerino Univ. (Italy).	Antarctica Biomedical Science Working Group
Lunar base thermal management/power system analysis and design p 315 N93-27985	Vaccination against Hepatitis B: The Italian strategy	p 81 N93-16806
Bonneville Power Administration, Portland, OR.	p 15 N93-11289 Canadian Space Agency, Ottawa (Ontario).	Autonomous support for microorganism research in space
Joint HVAC transmission EMF environmental study	Space life sciences overview p 158 N93-21074	[NASA-CR-192062] p 83 N93-17780
[DE92-017863] p 43 N93-15211	Cerebral autoregulation in microgravity	Earth to lunar CELSS evolution p 351 N93-29727
Boston Univ., MA. Visual perception of structure from motion	p 173 N93-21112	Colorado Univ., Denver.
[AD-A253235] p 26 N93-11503	Carnegie-Mellon Univ., Pittsburgh, PA. Connectionist models and linguistic theory:	Beta-adrenergic blockade and lactate metabolism during exercise at high altitude
The cognitive, perceptual, and neural bases of skilled	Investigations of stress systems in language	[AD-A263544] p 334 N93-29820
performance	[AD-A265450] p 364 N93-32064	Columbia Univ., New York, NY.
AD-A258236 p 130 N93-17820 British Aerospace Aircraft Group, Brough (England).	Case Western Reserve Univ., Cleveland, OH.	Radiation physics, biophysics, and radiation biology
Aircrew acceptance of automation in the cockpit	Shape optimization of tibial prosthesis components [NASA-CR-191123] p 246 N93-27085	[DE92-013673] p 6 N93-12266 Decision paths in complex tasks
p 144 N93-19761	Catholic Univ. of America, Washington, DC.	[NASA-CR-192121] p 132 N93-18359
British Aerospace Aircraft Group, Preston (England).	Adaptive automation and human performance, 3: Effects	Visual perception of elevation
The integration of advanced cockpit and systems design p 147 N93-19779	of practice on the benefits and costs of automation	[AD-A261394] p 259 N93-26307
design p 147 N93-19779 British Aerospace Public Ltd. Co., Bristol (England).	shifts AD-A254381 p 64 N93-12860	Connecticut Univ., Storrs. Auditory perception
Oculo-motor responses and virtual image displays	Mechanisms of microwave induced damage in biologic	[AD-A255061] p 23 N93-12469
p 319 N93-28862	materials	Construcciones Aeronauticas S.A., Madrid (Spain).
British Aerospace Public Ltd. Co., Kingston-upon-Thames (England).	[AD-A255799] p 42 N93-14648	Tobacco and health of the pilot
Ergonomic development of digital map displays	Mechanisms of microwave induced damage in biologic materials	[ETN-93-93693] p 217 N93-23414 Construction Technology Labs., Skokie, IL.
p 320 N93-28866	[AD-A264415] p 358 N93-32035	Concrete lunar base investigation p 107 N93-17445
British Columbia Univ., Vancouver.	Centers for Disease Control, Atlanta, GA.	Cornell Univ., Ithaca, NY.
Gravity as a factor in the orientation and vertical migration of marine zooplankton p 158 N93-21098	Fundamental diagnostic hematology: Anemia (second	Center of Excellence in Biotechnology (Research)
migration of marine zooplankton p 158 N93-21098 Brookhaven National Lab., Upton, NY.	edition) PB93-188662 p 338 N93-31140	AD-A263598 p 330 N93-29915 Corvallis Environmental Research Lab., OR.
Resource capture by single leaves	[PB93-188662] p 338 N93-31140 Fundamental diagnostic hematology: The bleeding and	Anatomy and physiology of plant conductive systems
[DE92-015847] p 5 N93-10461	clotting disorders (second edition)	[PB93-156032] p 245 N93-25877
The potential effects of concurrent increases in	[PB93-188670] p 338 N93-31158	CryoLife, Inc., Marietta, GA.
temperature, CO2 and O3 on net photosynthesis, as mediated by rubisCO	Centre d'Enseignement et de Recherches des	Cellular and tissue injury during nonfreezing cold injury and frostbite
[DE92-019411] p 5 N93-11630	Industries Alimentaires et Chimiques, Brussels (Belgium).	[AD-A260574] p 254 N93-25900
The effects of prolonged growth in elevated CO2		
	Cognitive factors in the air events of the Air Force during	Cryopharm Corp., Pasadena, CA.
concentrations in the field on the amounts of different leaf	the last decade p 134 N93-19682	Freeze-dried human red blood cells
concentrations in the field on the amounts of different leaf proteins	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine	
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France).	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193
concentrations in the field on the amounts of different leaf proteins	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine	Freeze-dried human red blood cells
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI.	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orleans	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orleans (France).	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypoxinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orleans (France). Exobiology and terrestrial life p 237 N93-24405	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193 Dalhousie Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orleans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France).	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193 D Dalhousie Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260322] p 219 N93-24238 Mechanical stimulation of skeletal muscle mitigates	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orleans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193 Dalhousie Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260322] p 219 N93-24238 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypoxinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orleans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193 Dalhousie Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment [AD-A264681] p 361 N93-32018 Danish Aerospace Medical Center of Research,
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260322] p 219 N93-24238 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orleans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193 Dalhousie Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment [AD-A264681] p 361 N93-32018 Danish Aerospace Medical Center of Research, Copenhagen.
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260322] p 219 N93-24238 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis [NASA-CR-193040] p 222 N93-24763	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orleans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 Centro de Instruccion de Medicina Aeroespatial, Madrid (Spain). Cardiovascular Risk Factors (CVRF) in Spanish pilots	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193 Dalhousie Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment [AD-A264681] p 361 N93-32018 Danish Aerospace Medical Center of Research, Copenhagen. Training concept for crew, end user, and ground centre
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260322] p 19 N93-24238 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis [NASA-CR-193040] p 222 N93-24763 Mechanical stimulation of skeletal muscle increases	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orteans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 Centro de Instruccion de Medicina Aeroespatial, Madrid (Spain). Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193 Dalhousie Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment [AD-A264681] p 361 N93-32018 Danish Aerospace Medical Center of Research, Copenhagen. Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260322] p 219 N93-24238 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis [NASA-CR-193040] p 222 N93-24763 Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orleans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 Centro de Instruccion de Medicina Aeroespatial, Madrid (Spain). Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic studies p 362 N93-32253	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193 Dalhousie Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment [AD-A264681] p 361 N93-32018 Danish Aerospace Medical Center of Research, Copenhagen. Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme p 226 N93-24382 Dartmouth Coll., Hanover, NH.
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260322] Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis [NASA-CR-193040] p 222 N93-24763 Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism [NASA-CR-193041] p 282 N93-27102	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orteans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 Centro de Instruccion de Medicina Aeroespatial, Madrid (Spain). Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193 Dalhousle Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment [AD-A264681] p 361 N93-32018 Danish Aerospace Medical Center of Research, Copenhagen. Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme p 226 N93-24382 Dartmouth Coll., Hanover, NH. Multimodal interactions in sensory-motor processing
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure fevels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260322] p 219 N93-24238 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis [NASA-CR-193040] p 222 N93-24763 Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism [NASA-CR-193041] p 282 N93-27102 Growth factor involvement in tension-induced skeletal	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orleans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 Centro de Instruccion de Medicina Aeroespatial, Madrid (Spain). Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic studies p 362 N93-32253 Survey of smoking habits in the Spanish Air Force	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193 Dalhousie Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment [AD-A264681] p 361 N93-32018 Danish Aerospace Medical Center of Research, Copenhagen. Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme p 226 N93-24382 Dartmouth Coll., Hanover, NH. Multimodal interactions in sensory-motor processing [AD-A255780] p 59 N93-15067
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260032] p 219 N93-24238 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis [NASA-CR-193040] p 222 N93-24763 Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism [NASA-CR-193041] p 282 N93-27102 Growth factor involvement in tension-induced skeletal muscle growth	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orteans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 Centro de Instruccion de Medicina Aeroespatial, Madrid (Spain). Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic studies Survey of smoking habits in the Spanish Air Force p 370 N93-32262 Chemical Research and Development Center, Aberdeen Proving Ground, MD.	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193 Dalhousie Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment [AD-A264681] p 361 N93-32018 Danish Aerospace Medical Center of Research, Copenhagen. Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme p 226 N93-24382 Dartmouth Coll., Hanover, NH. Multimodal interactions in sensory-motor processing [AD-A255780] p 59 N93-15067 Dassault-Breguet Aviation, Saint Cloud (France).
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure fevels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260322] p 219 N93-24238 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis [NASA-CR-193040] p 222 N93-24763 Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism [NASA-CR-193041] p 282 N93-27102 Growth factor involvement in tension-induced skeletal	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orleans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 Centro de Instruccion de Medicina Aeroespatial, Madrid (Spain). Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic studies p 362 N93-32253 Survey of smoking habits in the Spanish Air Force p 370 N93-32262 Chemical Research and Development Center, Aberdeen Proving Ground, MD. Silicon neuron	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193 Dalhousie Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment [AD-A264681] p 361 N93-32018 Danish Aerospace Medical Center of Research, Copenhagen. Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme p 226 N93-24382 Dartmouth Coll., Hanover, NH. Multimodal interactions in sensory-motor processing [AD-A255780] p 59 N93-15067 Dassault-Breguet Avlatton, Saint Cloud (France). Flight above a virtual world p 145 N93-19766
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260322] p 219 N93-24238 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis [NASA-CR-193040] p 222 N93-24763 Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism [NASA-CR-193041] p 282 N93-27102 Growth factor involvement in tension-induced skeletal muscle growth [NASA-CR-193023] p 282 N93-27113	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orteans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 Centro de Instruccion de Medicina Aeroespatial, Madrid (Spain). Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic studies Survey of smoking habits in the Spanish Air Force p 370 N93-32262 Chemical Research and Development Center, Aberdeen Proving Ground, MD.	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193 Dalhousie Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment [AD-A264681] p 361 N93-32018 Danish Aerospace Medical Center of Research, Copenhagen. Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme p 226 N93-24382 Dartmouth Coll., Hanover, NH. Multimodal interactions in sensory-motor processing [AD-A255780] p 59 N93-15067 Dassault-Breguet Aviation, Saint Cloud (France). Flight above a virtual world p 145 N93-19766 Dayton Univ., OH. Perceptual dimensions of visual scenes relevant for
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260032] p 219 N93-24238 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis [NASA-CR-193040] p 222 N93-24763 Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism [NASA-CR-193041] p 282 N93-27102 Growth factor involvement in tension-induced skeletal muscle growth	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orleans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 Centro de instruccion de Medicina Aeroespatial, Madrid (Spain). Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic studies p 362 N93-32253 Survey of smoking habits in the Spanish Air Force p 370 N93-32262 Chemical Research and Development Center, Aberdeen Proving Ground, MD. Silicon neuron [AD-A255091] p 50 N93-12756 Chemical Warfare/Chemical and Biological Defense Information Analysis Center, Edgewood, MD.	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193 Dalhousie Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment [AD-A264681] p 361 N93-32018 Danish Aerospace Medical Center of Research, Copenhagen. Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme p 226 N93-24382 Dartmouth Coll., Hanover, NH. Multimodal interactions in sensory-motor processing [AD-A255780] p 59 N93-15067 Dassault-Breguet Aviation, Saint Cloud (France). Flight above a virtual world p 145 N93-19766 Dayton Univ., OH. Perceptual dimensions of visual scenes relevant for simulating low-altitude flight
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260322] p 219 N93-24238 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis [NASA-CR-193040] p 222 N93-24763 Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism [NASA-CR-193041] p 282 N93-27102 Growth factor involvement in tension-induced skeletal muscle growth [NASA-CR-193023] p 282 N93-27113	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orleans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 Centre Ode Instruccion de Medicina Aeroespatial, Madrid (Spain). Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic studies p 362 N93-32253 Survey of smoking habits in the Spanish Air Force p 370 N93-32262 Chemical Research and Development Center, Aberdeen Proving Ground, MD. Silicon neuron AD-A255091 p 50 N93-12756 Chemical Warfare/Chemical and Biological Defense Information Analysis Center, Edgewood, MD. Evaluation of test methods and requirements for	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193 Dalhousie Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment [AD-A264681] p 361 N93-32018 Danish Aerospace Medical Center of Research, Copenhagen. Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme p 226 N93-24382 Dartmouth Coll., Hanover, NH. Multimodal interactions in sensory-motor processing [AD-A255780] p 59 N93-15067 Dassault-Breguet Aviation, Saint Cloud (France). Flight above a virtual world p 145 N93-19766 Dayton Univ., OH. Perceptual dimensions of visual scenes relevant for simulating low-altitude flight [AD-A254645] p 57 N93-12662
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260322] p 219 N93-24238 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis [NASA-CR-193040] p 222 N93-24763 Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism [NASA-CR-193041] p 282 N93-27102 Growth factor involvement in tension-induced skeletal muscle growth [NASA-CR-193023] p 282 N93-27113	the last decade Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orteans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 Centro de Instruccion de Medicina Aeroespatial, Madrid (Spain). Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic studies p 362 N93-32253 Survey of smoking habits in the Spanish Air Force p 370 N93-32262 Chemical Research and Development Center, Aberdeen Proving Ground, MD. Silicon neuron AD-A255091 p 50 N93-12756 Chemical Warfare/Chemical and Biological Defense Information Analysis Center, Edgewood, MD. Evaluation of test methods and requirements for respiratory protection systems 21	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193 Dalhousie Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment [AD-A264681] p 361 N93-32018 Danish Aerospace Medical Center of Research, Copenhagen. Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme p 226 N93-24382 Dartmouth Coll., Hanover, NH. Multimodal interactions in sensory-motor processing [AD-A255780] p 59 N93-15067 Dassault-Breguet Aviation, Saint Cloud (France). Flight above a virtual world p 145 N93-19766 Dayton Univ., OH. Perceptual dimensions of visual scenes relevant for simulating low-altitude flight [AD-A254645] p 57 N93-12662 Automatic information processing and high performance
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260322] p 219 N93-24238 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis [NASA-CR-193040] p 222 N93-24763 Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism [NASA-CR-193041] p 282 N93-27102 Growth factor involvement in tension-induced skeletal muscle growth [NASA-CR-193023] p 282 N93-27113 C California Univ., Berkeley. Spatio-temporal masking: Hyperacuity and local adaptation	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Sclentifique, Orleans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Sclentifique, Paris (France). Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 Centre Ode Instruccion de Medicina Aeroespatial, Madrid (Spain). Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic studies p 362 N93-32253 Survey of smoking habits in the Spanish Air Force p 370 N93-32262 Chemical Research and Development Center, Aberdeen Proving Ground, MD. Silicon neuron AD-A255091 p 50 N93-12756 Chemical Warfare/Chemical and Biological Defense Information Analysis Center, Edgewood, MD. Evaluation of test methods and requirements for respiratory protection systems 21 AD-A262466 p 317 N93-28757 Evaluation and optimization of a flexible filtration system	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193 Dalhousie Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment [AD-A264681] p 361 N93-32018 Danish Aerospace Medical Center of Research, Copenhagen. Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme p 226 N93-24382 Dartmouth Coll., Hanover, NH. Multimodal interactions in sensory-motor processing [AD-A255780] p 59 N93-15067 Dassault-Breguet Aviation, Saint Cloud (France). Flight above a virtual world p 145 N93-19766 Dayton Univ., OH. Perceptual dimensions of visual scenes relevant for simulating low-altitude flight [AD-A254645] p 57 N93-12662 Automatic information processing and high performance skills: Individual differences and mechanisms of performance improvement in search-detection and
concentrations in the field on the amounts of different leaf proteins DE93-002940	the last decade Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orteans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 Centro de Instruccion de Medicina Aeroespatial, Madrid (Spain). Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic studies p 362 N93-32253 Survey of smoking habits in the Spanish Air Force p 370 N93-32262 Chemical Research and Development Center, Aberdeen Proving Ground, MD. Silicon neuron AD-A255091 p 50 N93-12756 Chemical Warfare/Chemical and Biological Defense Information Analysis Center, Edgewood, MD. Evaluation of test methods and requirements for respiratory protection systems 21 AD-A262466 p 317 N93-28757 Evaluation and optimization of a flexible filtration system for respiratory protection system 21	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193 Dalhousie Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment [AD-A264681] p 361 N93-32018 Danish Aerospace Medical Center of Research, Copenhagen. Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme p 226 N93-24382 Dartmouth Coll., Hanover, NH. Multimodal interactions in sensory-motor processing [AD-A255780] p 59 N93-15067 Dassault-Breguet Aviation, Saint Cloud (France). Flight above a virtual world p 145 N93-19766 Dayton Univ., OH. Perceptual dimensions of visual scenes relevant for simulating low-altitude flight [AD-A254645] p 57 N93-12662 Automatic information processing and high performance skills: Individual differences and mechanisms of performance improvement in search-detection and complex tasks
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260322] p 219 N93-24238 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis [NASA-CR-193040] p 222 N93-24763 Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism [NASA-CR-193041] p 282 N93-27102 Growth factor involvement in tension-induced skeletal muscle growth [NASA-CR-193023] p 282 N93-27113 C California Univ., Berkeley. Spatio-temporal masking: Hyperacuity and local adaptation [AD-A257934] p 121 N93-18006 Micromotional studies of utricular and canal afferents	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orleans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 Centro de instruccion de Medicina Aeroespatial, Madrid (Spain). Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic studies p 362 N93-32253 Survey of smoking habits in the Spanish Air Force p 370 N93-32262 Chemical Research and Development Center, Aberdeen Proving Ground, MD. Silicon neuron [AD-A255091] p 50 N93-12756 Chemical Warfare/Chemical and Biological Defense Information Analysis Center, Edgewood, MD. Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Evaluation and optimization of a flexible filtration system for respiratory protection systems 21 [AD-A262467] p 284 N93-28758	Dalhousle Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment AD-A254681 p 361 N93-32018 Danish Aerospace Medical Center of Research, Copenhagen. Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme p 226 N93-24382 Dartmouth Coll., Hanover, NH. Multimodal interactions in sensory-motor processing AD-A255780 p 59 N93-15067 Dassault-Breguet Aviation, Saint Cloud (France). Flight above a virtual world p 145 N93-19766 Dayton Univ., OH. Perceptual dimensions of visual scenes relevant for simulating low-altitude flight AD-A254645 p 57 N93-12662 Automatic information processing and high performance skills: Individual differences and mechanisms of performance improvement in search-detection and complex tasks AD-A257711 p 100 N93-17684
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260322] p 219 N93-24238 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis [NASA-CR-193040] p 222 N93-24763 Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism [NASA-CR-193041] p 282 N93-27102 Growth factor involvement in tension-induced skeletal muscle growth [NASA-CR-193023] p 282 N93-27113 C California Univ., Berkeley. Spatio-temporal masking: Hyperacuity and local adaptation [AD-A257934] p 121 N93-18006 Micromotional studies of utricular and canal afferents [NASA-CR-192703] p 207 N93-22800	the last decade Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orteans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 Centro de Instruccion de Medicina Aeroespatial, Madrid (Spain). Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic studies p 362 N93-32253 Survey of smoking habits in the Spanish Air Force p 370 N93-32262 Chemical Research and Development Center, Aberdeen Proving Ground, MD. Silicon neuron AD-A255091 p 50 N93-12756 Chemical Warfare/Chemical and Biological Defense Information Analysis Center, Edgewood, MD. Evaluation of test methods and requirements for respiratory protection systems 21 AD-A262466 p 317 N93-28757 Evaluation and optimization of a flexible filtration system for respiratory protection system 21	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193 Dalhousie Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment [AD-A264681] p 361 N93-32018 Danish Aerospace Medical Center of Research, Copenhagen. Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme p 226 N93-24382 Dartmouth Coll., Hanover, NH. Multimodal interactions in sensory-motor processing [AD-A255780] p 59 N93-15067 Dassault-Breguet Aviation, Saint Cloud (France). Flight above a virtual world p 145 N93-19766 Dayton Univ., OH. Perceptual dimensions of visual scenes relevant for simulating low-altitude flight [AD-A254645] p 57 N93-12662 Automatic information processing and high performance skills: Individual differences and mechanisms of performance improvement in search-detection and complex tasks [AD-A257711] p 100 N93-17684 Automatic information processing and high performance
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260052] p 219 N93-24238 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis [NASA-CR-193040] p 222 N93-24763 Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism [NASA-CR-193041] p 282 N93-27102 Growth factor involvement in tension-induced skeletal muscle growth [NASA-CR-193023] p 282 N93-27113 C California Univ., Berkeley. Spatio-temporal masking: Hyperacuity and local adaptation [AD-A257934] p 121 N93-18006 Micromotional studies of utricular and canal afferents [NASA-CR-192703] p 207 N93-22800 Computer based analysis and synthesis of retinal function	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orteans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 Centro de Instruccion de Medicina Aeroespatial, Madrid (Spain). Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic studies p 362 N93-32253 Survey of smoking habits in the Spanish Air Force p 370 N93-32262 Chemical Research and Development Center, Aberdeen Proving Ground, MD. Silicon neuron AD-A255091 p 50 N93-12756 Chemical Warfare/Chemical and Biological Defense Information Analysis Center, Edgewood, MD. Evaluation of test methods and requirements for respiratory protection systems 21 AD-A262466 p 317 N93-28757 Evaluation and optimization of a flexible filtration system for respiratory protection systems 21 AD-A262467 p 284 N93-28758 Civil Aeromedical Inst., Oklahoma City, OK. Contribution of personality to the prediction of success in initial air traffic control specialist training	Dalhousle Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment AD-A254661 p 361 N93-32018 Danish Aerospace Medical Center of Research, Copenhagen. Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme p 226 N93-24382 Dartmouth Coll., Hanover, NH. Multimodal interactions in sensory-motor processing AD-A255780 p 59 N93-15067 Dassault-Breguet Aviation, Saint Cloud (France). Flight above a virtual world p 145 N93-19766 Dayton Univ., OH. Perceptual dimensions of visual scenes relevant for simulating low-altitude flight AD-A254645 p 57 N93-12662 Automatic information processing and high performance skills: Individual differences and mechanisms of performance improvement in search-detection and complex tasks AD-A257711 p 100 N93-17684
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260322] p 219 N93-24238 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis [NASA-CR-193040] p 222 N93-24763 Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism [NASA-CR-193041] p 282 N93-27102 Growth factor involvement in tension-induced skeletal muscle growth [NASA-CR-193023] p 282 N93-27113 CC California Univ., Berkeley. Spatio-temporal masking: Hyperacuity and local adaptation [AD-A257934] p 121 N93-18006 Micromotional studies of utricular and canal afferents [NASA-CR-192703] p 207 N93-22800 Computer based analysis and synthesis of retinal function [AD-A260514] p 221 N93-24420	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orleans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 Centro de Instruccion de Medicina Aeroespatial, Madrid (Spain). Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic studies p 362 N93-32253 Survey of smoking habits in the Spanish Air Force p 370 N93-32262 Chemical Research and Development Center, Aberdeen Proving Ground, MD. Silicon neuron AD-A255091 p 50 N93-12756 Chemical Warfare/Chemical and Biological Defense Information Analysis Center, Edgewood, MD. Evaluation of test methods and requirements for respiratory protection systems 21 AD-A262466 p 317 N93-28757 Evaluation and optimization of a flexible filtration system for respiratory protection systems 21 AD-A262467 p 284 N93-28758 Civil Aeromedical Inst., Oklahoma City, OK. Contribution of personality to the prediction of success in initial air traffic control specialist training DOT/FAA/AM-93/4 p 259 N93-26138	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193 Dalhousie Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment [AD-A264681] p 361 N93-32018 Danish Aerospace Medical Center of Research, Copenhagen. Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme p 226 N93-24382 Dartmouth Coll., Hanover, NH. Multimodal interactions in sensory-motor processing [AD-A255780] p 59 N93-15067 Dassault-Breguet Aviation, Saint Cloud (France). Flight above a virtual world p 145 N93-19766 Dayton Univ., OH. Perceptual dimensions of visual scenes relevant for simulating low-altitude flight [AD-A254645] p 57 N93-12662 Automatic information processing and high performance skills: Individual differences and mechanisms of performance improvement in search-detection and complex tasks [AD-A257711] p 100 N93-17684 Automatic information processing and high performance skills [AD-A258473] p 132 N93-18273 Night vision goggle training: Development and
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260322] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260322] p 219 N93-24238 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis [NASA-CR-193040] p 222 N93-24763 Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism [NASA-CR-193041] p 282 N93-27102 Growth factor involvement in tension-induced skeletal muscle growth [NASA-CR-193023] p 282 N93-27113 C California Univ., Berkeley. Spatio-temporal masking: Hyperacuity and local adaptation [AD-A257934] p 121 N93-18006 Micromotional studies of utricular and canal afferents [NASA-CR-192703] p 207 N93-22800 Computer based analysis and synthesis of retinal function [AD-A260514] p 221 N93-24420 California Univ., Berkeley. Lawrence Berkeley Lab.	the last decade Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orteans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 Centro de Instruccion de Medicina Aeroespatial, Madrid (Spain). Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic studies p 362 N93-32253 Survey of smoking habits in the Spanish Air Force p 370 N93-32262 Chemical Research and Development Center, Aberdeen Proving Ground, MD. Silicon neuron AD-A255091 p 50 N93-12756 Chemical Warfare/Chemical and Biological Defense Information Analysis Center, Edgewood, MD. Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Evaluation and optimization of a flexible filtration system for respiratory protection systems 21 [AD-A262467] p 284 N93-28758 Civil Aeromedical Inst., Oklahoma City, OK. Contribution of personality to the prediction of success in initial air traffic control specialist training DOT/FAA/AM-93/4 p 259 N93-26138 Variations of time-to-incapacitation and	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193 Dalhousie Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment [AD-A264681] p 361 N93-32018 Danish Aerospace Medical Center of Research, Copenhagen. Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme p 226 N93-24382 Dartmouth Coll., Hanover, NH. Multimodal interactions in sensory-motor processing [AD-A255780] p 59 N93-15067 Dassault-Breguet Aviation, Saint Cloud (France). Flight above a virtual world p 145 N93-19766 Dayton Univ., OH. Perceptual dimensions of visual scenes relevant for simulating low-altitude flight [AD-A254645] p 57 N93-12662 Automatic information processing and high performance skills: Individual differences and mechanisms of performance improvement in search-detection and complex tasks [AD-A257711] p 100 N93-17684 Automatic information processing and high performance skills [AD-A258473] p 132 N93-18273 Night vision goggle training: Development and production of six video programs
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260052] p 219 N93-24238 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis [NASA-CR-193040] p 222 N93-24763 Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism [NASA-CR-193041] p 282 N93-27102 Growth factor involvement in tension-induced skeletal muscle growth [NASA-CR-193023] p 282 N93-27113 C California Univ., Berkeley. Spatio-temporal masking: Hyperacuity and local adaptation [AD-A257934] p 121 N93-18006 Micromotional studies of utricular and canal afferents [NASA-CR-192703] p 207 N93-22800 Computer based analysis and synthesis of retinal function [AD-A260514] California Univ., Berkeley. Lawrence Berkeley Lab. Mathematics and biology: The interface, challenges and	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orleans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 Centro de Instruccion de Medicina Aeroespatial, Madrid (Spain). Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic studies p 362 N93-32253 Survey of smoking habits in the Spanish Air Force p 370 N93-32262 Chemical Research and Development Center, Aberdeen Proving Ground, MD. Silicon neuron AD-A255091 p 50 N93-12756 Chemical Warfare/Chemical and Biological Defense Information Analysis Center, Edgewood, MD. Evaluation of test methods and requirements for respiratory protection systems 21 AD-A262466 p 317 N93-28757 Evaluation and optimization of a flexible filtration system for respiratory protection systems 21 AD-A262467 p 284 N93-28758 Civil Aeromedical Inst., Oklahoma City, OK. Contribution of personality to the prediction of success in initial air traffic control specialist training DOT/FAA/AM-93/4 p 259 N93-26138	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193 Dalhousle Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment [AD-A264681] p 361 N93-32018 Danish Aerospace Medical Center of Research, Copenhagen. Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme p 226 N93-24382 Dartmouth Coll., Hanover, NH. Multimodal interactions in sensory-motor processing [AD-A255780] p 59 N93-15067 Dassault-Breguet Aviation, Saint Cloud (France). Flight above a virtual world p 145 N93-19766 Dayton Univ., OH. Perceptual dimensions of visual scenes relevant for simulating low-altitude flight [AD-A254645] p 57 N93-12662 Automatic information processing and high performance skills: Individual differences and mechanisms of performance improvement in search-detection and complex tasks [AD-A257711] p 100 N93-17684 Automatic information processing and high performance skills [AD-A258473] p 132 N93-18273 Night vision goggle training: Development and production of six video programs [AD-A258529] p 148 N93-20050
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260322] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260322] p 219 N93-24238 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis [NASA-CR-193040] p 222 N93-24763 Mechanical stimulation of skeletal muscle increases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism [NASA-CR-193041] p 282 N93-27102 Growth factor involvement in tension-induced skeletal muscle growth [NASA-CR-193023] p 282 N93-27113 C California Univ., Berkeley. Spatio-temporal masking: Hyperacuity and local adaptation [AD-A257934] p 121 N93-18006 Micromotional studies of utricular and canal afferents [NASA-CR-192703] p 207 N93-22800 Computer based analysis and synthesis of retinal function [AD-A260514] p 221 N93-24420 California Univ., Berkeley. Lawrence Berkeley Lab.	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orteans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 Centro de Instruccion de Medicina Aeroespatial, Madrid (Spain). Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic studies p 362 N93-32253 Survey of smoking habits in the Spanish Air Force p 370 N93-32262 Chemical Research and Development Center, Aberdeen Proving Ground, MD. Silicon neuron AD-A25091 p 50 N93-12756 Chemical Warfare/Chemical and Biological Defense Information Analysis Center, Edgewood, MD. Evaluation of test methods and requirements for respiratory protection systems 21 AD-A262466 p 317 N93-28757 Evaluation and optimization of a flexible filtration system for respiratory protection systems 21 AD-A262467 p 284 N93-28758 Civil Aeromedical Inst., Oklahoma City, OK. Contribution of personality to the prediction of success in initial air traffic control specialist training DOT/FAA/AM-93/4 p 259 N93-26138 Variations of time-to-incapacitation and carboxyhemoglobin values in rats exposed to two carbon monoxide concentrations DOT/FAA/AM-93/7 p 274 N93-27152	Dalhousie Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment AD-A2546681 p 361 N93-32018 Danish Aerospace Medical Center of Research, Copenhagen. Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme p 226 N93-24382 Dartmouth Coll., Hanover, NH. Multimodal interactions in sensory-motor processing AD-A255780 p 59 N93-15067 Dassault-Breguet Aviation, Saint Cloud (France). Flight above a virtual world p 145 N93-19766 Dayton Univ., OH. Perceptual dimensions of visual scenes relevant for simulating low-altitude flight AD-A254645 p 57 N93-12662 Automatic information processing and high performance skills: Individual differences and mechanisms of performance improvement in search-detection and complex tasks AD-A256473 p 100 N93-17684 Automatic information processing and high performance skills AD-A258473 p 132 N93-18273 Night vision goggle training: Development and production of six video programs AD-A258529 Danish vision of human responses
concentrations in the field on the amounts of different leaf proteins [DE93-002940] p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI. Theory of synaptic plasticity in visual cortex [AD-A260052] p 224 N93-23960 Theory of synaptic plasticity in visual cortex [AD-A260322] p 219 N93-24238 Mechanical stimulation of skeletal muscle mitigates glucocorticoid induced decreases in prostaglandin synthesis [NASA-CR-193040] p 222 N93-24763 Mechanical stimulation of skeletal muscle micreases prostaglandin F2(alpha) synthesis and cyclooxygenase activity by a pertussis toxin sensitive mechanism [NASA-CR-193041] p 282 N93-27102 Growth factor involvement in tension-induced skeletal muscle growth [NASA-CR-193023] p 282 N93-27113 C California Univ., Berkeley. Spatio-temporal masking: Hyperacuity and local adaptation [AD-A257934] p 121 N93-18006 Micromotional studies of utricular and canal afferents [NASA-CR-192703] p 207 N93-22800 Computer based analysis and synthesis of retinal function [AD-A260514] p 221 N93-24420 California Univ., Berkeley. Lawrence Berkeley Lab. Mathematics and biology: The interface, challenges and opportunities [DE92-041207] p 82 N93-17359 California Univ., Irvine.	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orleans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 Centro de Instruccion de Medicina Aeroespatial, Madrid (Spain). Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic studies p 362 N93-32253 Survey of smoking habits in the Spanish Air Force p 370 N93-32262 Chemical Research and Development Center, Aberdeen Proving Ground, MD. Silicon neuron [AD-A255091] p 50 N93-12756 Chemical Warfare/Chemical and Biological Defense Information Analysis Center, Edgewood, MD. Evaluation of test methods and requirements for respiratory protection systems 21 [AD-A262466] p 317 N93-28757 Evaluation and optimization of a flexible filtration system for respiratory protection systems 21 [AD-A262467] p 284 N93-28758 Civil Aeromedical Inst., Oklahoma City, OK. Contribution of personality to the prediction of success in initial air traffic control specialist training [DOT/FAA/AM-93/4] p 259 N93-26138 Variations of time-to-incapacitation and carboxyhemoglobin values in rats exposed to two carbon monoxide concentrations [DOT/FAA/AM-93/7] p 274 N93-27152 Variations in time-to-incapacitation and blood cynanide	Freeze-dried human red blood cells [AD-A253295] p 14 N93-11193 Dalhousie Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment [AD-A264681] p 361 N93-32018 Danish Aerospace Medical Center of Research, Copenhagen. Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme p 226 N93-24382 Dartmouth Coll., Hanover, NH. Multimodal interactions in sensory-motor processing [AD-A255780] p 59 N93-15067 Dassault-Breguet Aviation, Saint Cloud (France). Flight above a virtual world p 145 N93-19766 Dayton Univ., OH. Perceptual dimensions of visual scenes relevant for simulating low-altitude flight [AD-A254645] p 57 N93-12662 Automatic information processing and high performance skills: Individual differences and mechanisms of performance improvement in search-detection and complex tasks [AD-A257711] p 100 N93-17684 Automatic information processing and high performance skills [AD-A258473] p 132 N93-18273 Night vision goggle training: Development and production of six video programs [AD-A258529] p 148 N93-20050
concentrations in the field on the amounts of different leaf proteins DE93-002940 p 115 N93-19751 Improved inhalation technology for setting safe exposure levels for workplace chemicals p 174 N93-22164 Brown Univ., Providence, RI.	the last decade p 134 N93-19682 Centre d'Etudes et de Recherches de Medecine Aerospatiale, Bretigny sur Orge (France). Protein requirements in hypoxia or hypokinesia p 368 N93-32244 Centre National de la Recherche Scientifique, Orteans (France). Exobiology and terrestrial life p 237 N93-24405 Centre National de la Recherche Scientifique, Paris (France). Human factors and the safety of flights: The importance of the management of sleep p 371 N93-32267 Centro de Instruccion de Medicina Aeroespatial, Madrid (Spain). Cardiovascular Risk Factors (CVRF) in Spanish pilots with coronary artery disease demonstrated by angiographic studies p 362 N93-32253 Survey of smoking habits in the Spanish Air Force p 370 N93-32262 Chemical Research and Development Center, Aberdeen Proving Ground, MD. Silicon neuron AD-A25091 p 50 N93-12756 Chemical Warfare/Chemical and Biological Defense Information Analysis Center, Edgewood, MD. Evaluation of test methods and requirements for respiratory protection systems 21 AD-A262466 p 317 N93-28757 Evaluation and optimization of a flexible filtration system for respiratory protection systems 21 AD-A262467 p 284 N93-28758 Civil Aeromedical Inst., Oklahoma City, OK. Contribution of personality to the prediction of success in initial air traffic control specialist training DOT/FAA/AM-93/4 p 259 N93-26138 Variations of time-to-incapacitation and carboxyhemoglobin values in rats exposed to two carbon monoxide concentrations DOT/FAA/AM-93/7 p 274 N93-27152	Dalhousie Univ., Halifax (Nova Scotia). How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Neurophysiological analysis of circadian rhythm entrainment AD-A2646811 p 361 N93-32018 Danish Aerospace Medical Center of Research, Copenhagen. Training concept for crew, end user, and ground centre personnel in the Columbus utilisation programme p 226 N93-24382 Dartmouth Coll., Hanover, NH. Multimodal interactions in sensory-motor processing AD-A255780 p 59 N93-15067 Dassault-Breguet Aviation, Saint Cloud (France). Flight above a virtual world p 145 N93-19766 Dayton Univ., OH. Perceptual dimensions of visual scenes relevant for simulating low-altitude flight AD-A254645 p 57 N93-12662 Automatic information processing and high performance skills: Individual differences and mechanisms of performance improvement in search-detection and complex tasks AD-A257711 p 100 N93-17684 Automatic information processing and high performance skills AD-A258473 p 132 N93-18273 Night vision goggle training: pevelopment and production of six video programs AD-A258529 p 148 N93-20050 Quantification of human responses

Accident proneness: A research review | DOT/FAA/AM-93/9 | p 288 N93-28622 Civil Aviation Authority, London (England).

[CAP-601] p 363 N93-31729 Coast Guard Research and Development Center,

Evaluation of Night Vision Goggles (NVG) for maritime search and rescue (joint Canadian/US Coast Guard

p 70 N93-14554

Mandatory multi-engined training syllabus [CAP-601] p 363

Groton, CT.

experiment) [AD-A255525]

C-3

p 341 N93-30542

p 139 N93-18029

p 353 N93-29924

p 209 N93-23343

[AD-A264661]

[AD-A258275]

[AD-A264069]

present [DCIEM-92-20]

Dayton Univ. Research Inst., OH.

Helmet-mounted area-of-interest display

Defence and Civil Inst. of Environmental Medicine,
Downsview (Ontario).

Bibliography of the Biosciences Division: 1986 to

CATS EYES adjustment procedures

spores of

p 277 N93-29274

p 338 N93-31138

p 209 N93-23233

p 218 N93-24088

p 257 N93-25203

p 257 N93-25213

p 253 N93-25214

p 24 N93-10321

p 31 N93-11279

p 49 N93-12612

p 95" N93-16041

p 123 N93-18301

p 172 N93-21047

p 284 N93-28306

p 159 N93-21230

p 34 N93-12423

p 172 N93-20736

p 43 N93-15208

p 351 N93-29728

p 107 N93-17446

p 318 N93-28859

Defence and Civil Inst. of Environmental Medicine

Influence of the Cold Buster (tm) sports bar on heat The aircraft position tests: A computer generated European Space Agency, Paris (France). debt. mobilization and oxidation of energy substrates [AD-A262762] p 285 N93-28939 process for acquisition of spatial orientation capability Photobiological investigations [AD-A262762] p 344 N93-31236 streptomyces griseus Evaluation of personal cooling systems in conjunction IESA-TT-12691 The cube rotation test: A computer generated process with explosive ordnance disposal suits for acquisition of mental spatial manipulator capability EXOS, Inc., Burlington, MA. IAD-A2628621 p 344 N93-31237 p 350 N93-29471 Prevention of cumulative trauma disorders The PARAT tests as examination system [PB93-188332] Defence and Civil Inst. of Environmental Medicine. p 344 N93-31238 North York (Ontario). Eye and Ear Hospital, Pittsburgh, PA.
Neural processing of gravity information Mechanisms of immune failure in burn injury Deutsche Sporthochschule, Cologne (Germany). p 15 N93-11285 Asthma in aircrew: Assessment, treatment and Columbus payload requirements in human physiology [NASA-CR-192766] p 220 N93-24386 sposition p 21 N93-11315
Principles for integrating voice I/O in a complex disposition Divisione Aerea Studi Ricerche e Sperimentazioni, F Pratica di Mare (Italy). p 146 N93-19774 Dramatic reduction of meningococcal meningitis among interface Defence Research Agency, Bedford (England).

The design and development of the new RAF standard military recruits in Italy after introduction of specific Federal Aviation Administration, Oklahoma City, OK. p 18 N93-11303 vaccination Survey of aviation medical examiners: Information and HUD format p 318 N93-28856 Clinical and immunological response to vaccination with attitudes about the pre-employment and pre-appointment Defence Research Agency, Farnborough (England).
The quest for an integrated flying helmet parenteral or oral vaccines in two groups of 30 recruits drug testing program [DOT/FAA/AM-92/15] p 19 N93-11305 The screening of inhalant allergic diseases in the p 319 N93-28860 Organizational politics, participation in decision-making, Defence Research Agency, Seveuales (England). selection of candidates for aircraft piloting and job satisfaction Explosives search dogs p 159 N93-21933
Defence Research Establishment, Ottawa (Ontario). p 21 N93-11312 DOT/FAA/AM-92/17] DOMPE S.p.A., L'Aquila (Italy). A longitudinal examination of applicants to the air traffic AFTERRISE: Deep body temperature Cytokines as vaccine adjuvants: Interleukin 1 and its following control supervisory identification and development exercise synthetic peptide 163-171 p 20 N93-11309 Dornier Luftfahrt G.m.b.H., Friedrichshafen (Germany). IAD-A2598871 IDOT/FAA/AM-92/161 Defense Advanced Research Projects Agency, Symbology for head up and head down applications for The prevalence of artificial lens implants in the civil highly agile fighter aircraft: To improve spatial awareness, Arlington, VA. From pilot's associate to satellite trajectory control, and unusual attitude recovery, part 1 p 318 N93-28857 airman population p 32 N93-11922 JDOT/FAA/AM-92/14J associate Drexel Univ., Philadelphia, PA. Defense Technical Information Center, San Diego, CA. Federal Aviation Administration, Washington, DC. Directory of design support methods [AD-A256987] A new test of scanning and monitoring ability: Methods Development of novel models for describing multiple and initial results p 104 N93-16258 toxicity effects p 336 N93-30422 [AD-A249123] Delft Hydrautics Lab. (Netherlands). I AD-A2644391 Duke Univ., Durham, NC.

Retinal information processing for minimum laser lesion A new concept for helmet mounted vision Comparisons of molecular sieve oxygen concentrators p 145 N93-19767 for potential medical use aboard commercial aircraft Department of Energy, Washington, DC. detection and cumulative damage IAD-A2536481 p 171 N93-20563 IAD-A2591951 Proceedings of a Workshop on Molecular Nuclear The identification and quantitation of triamterene in blood Primary events in olfactory reception and urine from a fatal aircraft accident p 255 N93-25944 1DE93-0108281 IAD-A2605621 JAD-A254550 J Dynamics Research Corp., Wilmington, MA. Department of the Air Force, Kirtland AFB, NM. Enhancement of drug detection and identification by use Development of the Personnel-based System Evaluation TALON and CRADLE: Systems for the rescue of of various derivatizing reagents on GC-FTIR analysis Aid (PER-SEVAL) performance shaping functions tumbling spacecraft and astronauts p 196 N93-22268 LAD-A2555821 p 26 N93-11779 Department of the Army, Washington, DC. Validity of clinical color vision tests for air traffic control Improved head support stand adjustable by Development of measures of crew coordination IAD-A2553841 p 70 N93-14651 compoundturnbuckle AD-A2582191 [AD-D015384] p 55 N93-15249 Attention factors associated with head-up display and Guide for aviation medical examiners Department of the Navy, Washington, DC. helmet-mounted display systems [PB92-219690] p 235 N93-24001 [AD-A260204] Helmet visor support apparatus Index of international publications in aerospace AD-D015684 p 351 N93-29606 Goggles emergency release apparatus p 351 N93-29607 IAD-A2629081 [AD-D015685] Federal Aviation Agency, Oklahoma City, OK.
Comparison of portable crewmember protective breathing equipment (CPBE) designs
[DOT/FAA/AM-93/6] p 310 N93-27121 Department of Transport (England). East Carolina Univ., Greenville, NC. The design and use of automotive crash test dummies Evaluation of dried storage of platelets for transfusion: p 142 N93-19669 Physiologic integrity and hemostatic functionality [AD-A263240] p 334 N9 Design Science, Los Angeles, CA. p 334 N93-29620 ECC International Corp., Orlando, FL. Federal Coordinating Council for Science, Engineering and Téchnology, Washington, DC. Lunar subsurface architecture enhanced by artificial p 107 N93-17448 biosphere concepts Training high performance skills using above real-time Deutsche Forschungsanstalt fuer Luft- und Raumfahrt, Prologue to Action. Life Sciences Education and Science training Cologne (Germany). Literacy |NASA-CR-192616| p 225 N93-24192 Evoked brain potentials as indicators of a central nervous LPR93-1075141 Edgerton, Germeshausen and Grier, Inc., Idaho Falls, impairment in a simulated saturation dive to 560 m Florida Inst. of Tech., Melbourne. p 219 N93-24093 Studies of a laser/nuclear thermal hardened body Crucial role of detailed function, task, timeline, link, and Mir 1992 operations and crew training human vulnerability analyses in HRA p 226 N93-24352 IAD-A2551281 [DE93-001923] p 321 N93-28942 p 237 N93-24373 Life in and from space Educational Testing Service, Princeton, NJ. Rapid susceptibility testing of mycobacterium avium complex and mycobacterium tuberculosis isolated from with non-invasive p 221 N93-24399 Cardiovascular stress test with A psychometrically sound cognitive diagnostic model: AIDS patients Effect of remediation as empirical validity Deutsche Forschungsanstalt fuer Luft- und Raumfahrt, [NASA-CR-192382] p 52 N93-14109 [AD-A255926] Hamburg (Germany). Florida Sea Grant Coll., Gainesville. Eidgenoessische Technische Hochschule, Zurich Stress resistance as a diagnostic category in air traffic The production and use of aeroponically grown inocula (Switzerland). controller selection Space flight and immune system p 14 N9 Elektronik-System G.m.b.H., Munich (Germany). of VAM fungi in the native plant nursery [PB92-204973] [DLR-FB-92-13] p 219 N93-24092 International application of the DLR test-system: Continuation of the cooperation with Iberia in pilot CVA, cockpit design and development tool Florida Univ., Gainesville. p 147 N93-19780 Design of biomass management systems and Filiott-Automation Space and Advanced Military p 225 N93-24104 components for closed loop life support systems [DLR-FB-92-12] Systems Ltd., Camberley (England). Computer-generated parallel tests for aptitude Pilot decision aiding for weapon delivery: A novel Future Systems Consultants, Los Angeles, CA. measurement in the selection of aviation operators approach to fire control cueing using parallel computing Vertical regolith shield wall construction for lunar base DLR-FB-92-29] p 343 N93-31229 Background and objectives of the PARAT program (DLR-FB-92-291 p 317 N93-28853 applications Energetics, Inc., Columbia, MD.
Potential human health effects associated with power p 343 N93-31230 Phases of the project development and examination G frequency electric and magnetic fields p 343 N93-31231 methodologies p 221 N93-24590 IPB93-1326781 The position test: A computer generated process for Ergonomic Engineering Associates, Pelham, MA. acquisition of inductive logic thinking Galaxy Scientific Corp., Atlanta, GA. Adaptation to transient postural perturbations [NASA-CR-190959] p 105 N p 343 N93-31232

Human Factors Issues in Aircraft Maintenance and Inspection. Science, technology, and management: A program review [PB93-146975] p 234 N93-23647 Galaxy Scientific Corp., Pleasantville, NJ. Human Factors in Aviation Maintenance, phase 2

p 105 N93-16699

p 225 N93-24345

p 226 N93-24346

Eurocopter Deutschland G.m.b.H., Munich (Germany).

European Space Agency, Cologne (Germany).

The European astronauts training programme

helicopters

Equipment, more or less ready to be used in elicopters p 148 N93-19785

Selection of astronauts for European space missions

[DOT/FAA/AM-93/5] [DOT/FAA/AM-93/5] p 267 N93-26089 General Dynamics Corp., Fort Worth, TX. results Head-steered sensor flight test

implications

The test memorization of symbols and numbers: A

The clearance test: A computer generated process for

The concentration loading test system: A computer generated process for acquisition of attentiveness control p 344 N93-31235

p 343 N93-31233

p 343 N93-31234

computer generated test for visual sensitivity

acquisition of auditive short term sensitivity

General Dynamics Corp., San Diego, CA. Results and management of pathological lipoprotein Aircraft accident injuries in the Hellenic Air Force in the Candidate technologies for the Integrated Health concentrations and other cardiovascular risk factors in last 20 years p 126 N93-19698 Management Program military pilots of the German Federal Armed Forces Correlation of life-style and dietary concomitants of INASA-CR-1925201 Greek pilots with serum analytes p 369 N93-3
Hickling (James F.) Management Consultants Ltd., p 369 N93-32256 p 217 N93-22655 p 363 N93-32254 General Electric Co., Gilbert, AZ. Good Samaritan Hospital and Medical Center. Low-cost helmet-mounted displays Ottawa (Ontario). Portland, OR. IAD-A2626161 p 317 N93-28479 The air traffic controller's mental model and it's Role of orientation reference selection in motion General Electric Co., Houston, TX. implications for equipment design and trainee selection p 341 N93-30322 Space biology initiative program definition review. Trade INASA-CR-1919121 p 124 N93-18596 Hilton Systems, Inc., Cherry Hill, NJ. study 5: Modification of existing hardware (COTS) versus new hardware build cost analysis p 207 N93-23069 Torsional vestibulo-ocular reflex measurements for Age 60 Project: Consolidated database experiments identifying otolith asymmetries possibly related to space Space biology initiative program definition review. Trade [HS-TR-8025-3C(R2)] p 314 N93-27851 motion sickness susceptibility study 1: Automation costs versus crew utilization INASA-CR-1933041 Hopital Ambroise Pare, Boulogne-Billancourt (France). p 363 N93-32364 p 208 N93-23070 The influence of individual sensivity to stress on the Gordon Research Conferences, Inc., Kingston, Rl. Space biology initiative program definition review. Trade behavior (attitude and performance) of avoidance of an The Gordon Research Conference on Pineal Cell p 134 N93-19705 study 4: Design modularity and commonality p 208 N93-23071 Biology [AD-A264840] Hopital d'Instruction des Armees, Paris (France). p 337 N93-30904 Immunization of personnel traveling to a destination in Space biology initiative program definition review. Trade Guelph Univ. (Ontario). p 19 N93-11304 study 3: Hardware miniaturization versus cost tropical countries: French position Fuzzy neural network methodology applied to medical p 208 N93-23080 Horizon Aerospace, Houston, TX. diagnosis p 334 N93-29546 Gulhane Skeri Tip Akademisi, Eskisehir (Turkey). Space Biology Initiative. Trade Studies, volume 1 Space biology initiative program definition review. Trade [NASA-CR-190989] p 207 N93-23068 Space biology initiative program definition review. Trade study 5: Modification of existing hardware (COTS) versus study 6: Space Station Freedom/spacelab modules Assessment of morale in Turkish Air Force pilots with two clinical psychological tests p 133 N93-19660 p 209 N93-23081 IEEI-89-2361 Gremlins: A dozen hazardous thought and behavior new hardware build cost analysis p 207 N93-23069
Space biology initiative program definition review. Trade study 1: Automation costs versus crew utilization patterns as risk factors p 134 N93-19709 Space biology initiative program definition review. Trade study 2: Prototype utilization in the development of space Effectiveness of birthdate biorhythm theory on flight coidents p 127 N93-19710 p 209 N93-23082 biology hardware accidents p 208 N93-23070 MAC to VAX connectivity: Heartrate spectral analysis Space biology initiative program definition review. Trade system p 254 N93-25594 study 4: Design modularity and commonality p 208 N93-23071
Space Biology Initiative. Trade Studies, volume 2
[NASA-CR-190990] p 208 N93-23075
Space biology (1997) Space Station Freedom biomedical monitoring and countermeasures: Biomedical facility hardware catalog H. W. Structures Ltd., Pitsea (England). [NASA-CR-193156] p 246 N93-26700 Occupant kinematics simulation of the Kegworth air ccident p 142 N93-19662 General Electric Co., Huntsville, AL. Space biology initiative program definition review. Trade Gravitational Biology Facility on Space Station: Meeting study 3: Hardware miniaturization versus cost Hahnemann Medical Coll. and Hospital, Philadelphia, the needs of space biology p 208 N93-23080 p 206 N93-22625 General Engineering and Systems Analysis Co., Inc., Space biology initiative program definition review. Trade The role of central monoaminergic systems in arousal Kearneysville, WV. and selective attention study 6: Space Station Freedom/spacelab modules Microcomputer based software for biodynamic p 196 N93-22191 [AD-A258500] compatibility p 122 N93-18264 EEI-89-236] p 209 N93-23081 Space biology initiative program definition review. Trade simulation Hamilton Standard, Windsor Locks, CT. (FFI-89-236) George Mason Univ., Fairfax, VA.
Evaluation and estimation of handling qualities via Evolution of Space Station EMU PLSS technology study 2: Prototype utilization in the development of space recommendations p 312 N93-27790 p 209 N93-23082 statistical modeling of pilot response data Hamilton Standard Div., United Aircraft Corp., Windsor biology hardware p 69 N93-14548 Houston Univ., TX. LAD-A2553241 Locks CT Metabolic response of environmentally isolated microorganisms to industrial effluents: Use of a newly George Washington Univ., Washington, DC.
Publications of the Space Physiology Submarine Advanced Integrated Life Support system (SAILS) program microorganisms to incusting an annual conditions and described cell culture assay p 245 N93-26066

The adult literacy evaluator: An intelligent computer-aided training system for diagnosing adult Countermeasures Program; Neuroscience Discipline: IAD-A2535641 o.32 N93-11812 Harvard School of Public Health, Boston, MA. 1980-1990 Analysis of disease progression from clinical observations of US Air Force active duty members infected [NASA-CR-4476] p 55 N93-15583 p 258 N93-26082 illiterates Publications of the Space Physiology and Human Engineering Labs., Aberdeen Proving Ground, with the Human Immunodeficiency Virus: Distribution of Countermeasures Program, Cardiopulmonary Discipline: MD AIDS survival time from interval censored observations 1980-1990 System for generating dynamic video imagery for human p 17 N93-11297 INASA-CR-44751 p 123 N93-18376 Harvard Univ., Cambridge, MA. factors research Georgetown Univ., Washington, DC. p 31 N93-11743 [AD-A248675] The effects of luminance boundaries on color perception Studies of safety, infectivity, and immunogenicity of a new Temperature Sensitive (TS) 51-1 strain of S. typhi spatial luminance nonuniformities on Effects of visual-task performance and subjective uniformity p 22 N93-11841 AD-A2507051 as a new live oral typhoid fever vaccine candidate [AD-A255989] p 58 N93-14416 Wide-bandwidth high extraterrestrial intelligence search high-resolution p 19 N93-11306 Gloved operator performance study Epidemiologic view of allergic diseases in North America: [NASA-CR-191618] [AD-A2568941 p 104 N93-16048 p 110 N93-15825 Implications for aerospace medicine p 20 N93-11311 Hunter Coll., New York, NY. search Wide-bandwidth high-resolution Georgia Inst. of Tech., Atlanta. extraterrestrial intelligence Gene transcription and electromagnetic fields [DE93-010854] HydroQual, Inc., Mahwah, NJ. Automatic information processing and high performance p 276 N93-28848 [NASA-CR-191807] p 110 N93-16709 skills: Individual differences and mechanisms of performance improvement in search-detection and Neuropsychological components of object Ultraviolet disinfection technology assessment identification [PB92-222868] p 64 N93-12983 [AD-A261449] p 259 N93-26347 [AD-A257711] p 100 N93-17684 Wide-bandwidth high-resolution search Cognitive engineering models in space systems [NASA-CR-192001] p 141 N93 extraterrestrial intelligence p 141 N93-18517 [NASA-CR-193137] p 322 N93-28895 Acquisition and production of skilled behavior in dynamic Intermediate levels of visual processing Idaho Univ., Moscow. p 335 N93-30192 [AD-A264117] decision-making tasks Exercise/recreation facility for a lunar or Mars analog p 181 N93-20908 [NASA-CR-192361] Hawaii Univ., Honolulu. p 352 N93-29733 Georgia State Univ., Atlanta.

Neurochemical control of circadian rhythms Space migrations: Anthropology and the humanization IIT Research Inst., Chicago, IL. p 105 N93-16862 of space Engineman stress and fatigue: Pilot tests Health and Welfare Canada, Ottawa (Ontario). [AD-A255054] p 50 N93-13116 [PB93-175008] p 351 N93-29675 The development of an automated cell culture system Georgia Univ., Athens. Indiana Univ., Bloomington. for use in space life science research Nitrogen control of chloroplast development and Institute for the Study of Human Capabilities p 158 N93-21085 differentiation p 69 N93-14427 [AD-A256091] Health Effects Research Lab., Research Triangle Park, p 39 N93-12768 Nerves and tissue repair Expertise, text coherence, and constraint satisfaction: p 53 N93-14535 (AD-A2552991 Measurement of behavioral thermoregulation Effects on harmony and settling rate Inhalation Toxicology Research Inst., Albuquerque, [PB92-217033] p 172 N93-21046 p 288 N93-28901 IAD-A2627031 Hecht-Nielsen Neurocomputer Corp., Inc., San Diego, German Air Force, Fuerstenfeldbruk (Germany). Understanding mechanisms of carcinogenesis using rat Effects of medium blood alcohol levels on pilots tracheal epithelial cells in vitro Neural network retinal model real time implementation performance in the Sea King Simulator MK-41 [DE92-013510] p 13 N93-10626 [AD-A255652] p 52 N93-14210 p 125 N93-19683 Innsbruck Univ. (Austria). Hellenic Air Force Aeromedical Center, Athens Toxicological investigations of flight accidetns: Findings Eve-head-arm coordination and spinal reflexes in (Greece). and methods p 236 N93-24362 p 126 N93-19695 weightlessness Lipidemic profile of Hellenic Airforce officers

p 362 N93-32250 Hellenic Air Force General Hospital, Athens (Greece).

Allergic and nonallergic rhinitis in Greek pilots p 21 N93-11317

Correlation of serum alpha sub 1 antitrypsin with

p 22 N93-11318

cigarette smoking and pulmonary function status in Greek

pilots, for a ten year period

27 years armed forces aerospace pathology and

Significance of histological postmortem findings in pilots

killed in military and civil aircraft accidents in Germany

(West): A 25-year-review

p 126 N93-19696

p 126 N93-19697

toxicology in the Federal Republic of Germany: Development, current status, trends and challenges

p 25 N93-10719

p 35 N93-12491

Institute for Defense Analyses, Alexandria, VA.

combat clothing on human performance

for attack and transport missions

[AD-A253988]

IAD-A2507161

Relating flying hours to aircrew performance: Evidence

The effects of wearing protective chemical warfare

p 170 A93-28759

p 231 A93-31034

p 233 A93-33448

p 263 A93-35566

p 290 A93-41310

p 290 A93-41311

p 290 A93-41312

p 364 A93-45598

p 390 A93-49397

p 392 A93-50513

p 392 A93-50592

p 392 A93-50593

p 409 A93-54158

p 409 A93-54845

p 410 A93-55469

p 245 N93-25994

p 366 N93-32106

p 366 N93-32108

p 173 N93-22163

p 253 N93-25568

p 253 N93-25569

p 254 N93-25592

n 40 N93,13033

p 244 N93-25405

p 244 N93-25406

p 253 N93-25407

p 276 N93-28683

p 276 N93-28684

p 217 N93-23459

IAD-A2608741

p 254 N93-25629

advanced

Inst. for Perception RVO-TNO

Institute for Perception RVO-TNO, Soesterberg Wall shear stress estimates in coronary artery (Netherlands). constrictions A spurious pop-out in visual search An operator interface design for a telerobotic inspection IAD-A2565481 p 57 N93-14267 Decision making in a dynamic task environment: The IAIAA PAPER 93-1160 I effect of time pressure A teleoperation training simulator with visual and kinesthetic force virtual reality p 58 N93-14602 NASA's telerobotics research program High-resolution contrast control on a video display: Method and calibration Overview of NASA's 1991 Life Support Systems Analysis p 60 N93-15400 IAD-A2565521 Workshop Institute of Aviation Medicine, Oslo (Norway). ISAE PAPER 9211181 The next generation female in cockoit: Do we need a Human life support during interplanetary travel and new approach to cockpit resource management (CRM)? domicile. V - Mars expedition technology trade study for p 143 N93-19704 solid waste management Changes in food and energy intake in military aircrew [SAE PAPER 921119] p 368 N93-32246 Human life support during interplanetary travel and Institute of Biomedical Problems, Moscow (USSR). domicile. VI - Generic modular flow schematic for hybrid Physiological experiments within the project AustroMir physical/chemical-biological life support systems p 219 N93-24354 SAE PAPER 9211201 Institute of Ecotechnics, London (England). Kinematics and control of a fully parallel force-reflecting p 66 N93-13992 Life systems for a lunar base hand controller for manipulator teleoperation Institute of Sound and Vibration Research, Southampton (England). Operator performance with alternative manual control Design guide for the ergonomic aspects of helicopter modes in teleoperation Interactive and cooperative sensing and control for dvanced teleoperation p 391 A93-49443 crew seating [ISVR-TR-209] p 65 N93-13464 advanced teleoperation Transmission of vibration through the human body to A procedure for the frequency analysis of telerobotic the head: A summary of experimental data tasks data [ISVR-TR-218] p 361 N93-32237 Ground-remote control for space station telerobotics Instituto de Pesquisas Energeticas e Nucleares, Sao with time delay LAAS PAPER 92-0521 Paulo (Brazil). Telerobot control mode performance assessment Utilization of high energy electron beam in the treatment [AAS PAPER 92-053] of drinking and waste water Intelligent sensing and control for [DE92-642335] p 372 N93-32406 teleoperation Integrated Space Systems Corp., Collegeville, PA. Integrated tools for teleoperated satellite repair Evolving concepts of lunar architecture: The potential of subselene development p 107 N93-17447 Remote surface inspection system International Atomic Energy Agency, Vienna (Austria). Format and structure of a database on health and Pseudomonas screening ass environmental impacts of different energy systems for NASA-CASE-NPO-17653-1-CU electricity generation Man-machine cooperation in advanced teleoperation [DE92-634160] p 12 N93-10222 international Centre for Theoretical Physics, Trieste Interactive and cooperative sensing and control for (Italy). Spontaneous regulating mechanisms that may have led advanced teleoperation Johns Hopkins Univ., Laurel, MD. to the origin of life Automated system for analyzing the activity of individual (DE93-6036771 p 331 N93-31161 Iowa State Univ. of Science and Technology, Ames. neurons Automated system for early breast cancer detection in Space life support engineering program mammograms p 141 N93-19039 [NASA-CR-192188] The design of mechanically compatible fasteners for Iowa Univ., Iowa City. human mandible reconstruction Meta-analysis of integrity tests: A critical examination Automatic detection of seizures with applications of validity generalization and moderator variables (AD-A254681) p 27 N93-12225 Joint Publications Research Service, Arlington VA. Molecular biology of anaerobic JPRS report: Science and technology. Central Eurasia: biodegradation Life sciences (AD-A2552131 p 42 N93-13863 [JPRS-ULS-92-024] Ishikawajima-Harima Heavy Industries Co. Ltd., Tokyo JPRS report: Science and technology. Central Eurasia: (Japan). Life sciences Manned lunar surface site: Conceptual study on JPRS-ULS-92-0251 pressurized lunar surface operation rover p 316 N93-28032 Lunar surface experiment system p 316 N93-28034 JPRS report: Science and technology. Central Eurasia: Life sciences [JPRS-ULS-92-020] Istituto Superiore di Sanita, Rome (Italy). JPRS report: Science and technology. Central Eurasia: HIV variability and perspectives of a vaccine Life sciences p 16 N93-11294 [JPRS-ULS-92-022] Italian Air Force Pratica di Mare, Rome. JPRS report: Science and technology. Central Eurasia: Idiopathic Reactive Hypoglycemia in a population of healthy trainees of an Italian Air Force military school p 368 N93-32248 Life sciences [JPRS-ULS-93-005] JPRS report: Science and technology. Central Eurasia: Cardiovascular risk factors in an Italian Air Force population: Preliminary report p 362 N93-32252 Life sciences [JPRS-ULS-92-027]

Jackson (Henry M.) Foundation, Washington, DC.

Jet Propulsion Lab., California Inst. of Tech.,

performance for low vision observers

Jasper (Louis J., Jr), Fulton, MD.

[AD-A254359]

biology studies

Pasadena.

operations

Relating cognitive function to military aviator performance in early HIV infection p 17 N93-11298

conservation in toilets p 195 N93-22167 Jefferson Medical Coll., Philadelphia, PA.

Variable-Volume Flushing (V-VF) device for water

A core facility for the study of neurotoxins of biological

Caenorhabditis elegans - A model system for space

Fusing human and machine skills for remote robotic

Image enhancement filters significantly improve reading

p 17 N93-11298

p 50 N93-12945

p 80 A93-20665

p 137 A93-24994

p 167 A93-28723

rhythms [AD-A259803]

K Kansas State Univ., Manhattan. Automation of closed environments in space for human comfort and safety [NASA-CR-192045] Automation of closed environments in space for human p 352 N93-29734 comfort and safety Kawasaki Heavy Industries Ltd., Kobe (Japan). p 316 N93-28033 Manned lunar surface site Keller Army Community Hospital, West Point, NY. A prospective evaluation of stress fractures/overuse injuries in a population of West Point cadets p 13 N93-10709 [AD-A252427] Kent State Univ., OH.

Study of SCN neurochemistry using in vivo microdialysis

in the conscious brain: Correlation with circadian activity

CORPORATE SOURCE Krug International, Houston, TX. A health care system for the Space Station INASA-TM-1080931 p 65 N93-13571 Krug Life Sciences, Inc., San Antonio, TX. Complement proteins and decompression sickness susceptibility IAD-A2544481 n 50 N93-12905 Utility of a ghost horizon and climb/dive ladder line tapering on a head-up display IAD-A264401 p 353 N93-30167 Acquisition of physiological data during G-induced Loss of Consciousness (G-LOC) [AD-A264492] o 335 N93-30400 Laboratoire de Medecine Aerospatiale, Bretigny-sur-Orge (France). Fires on board aircraft: Toxicological risk in flight p 126 N93-19694 Lawrence Livermore National Lab., CA. Molecular cytogenetics: A novel approach for measuring chromosome translocations in individuals years after exposure to low levels of ionizing radiation p 5 N93-10974 IDE92-0180661 Lehigh Univ., Bethlehem, PA. Electrically modifiable nonvolatile SONOS synapses for electronic neural networks p 122 N93-18252 IAD-A2583181 Lernout and Hauspie Speech Products N.V., Ypres (Belgium). The use of voice processing for some aspects of the pilot-vehicle-interface in an aircraft p 146 N93-19772 Letterman Army Inst. of Research, San Francisco, CA. Systemic and pulmonary hypertension after resuscitation with cell-free hemoglobin p 120 N93-17900 [AD-A258185] Life Systems, Inc., Cleveland, OH. Integrated oxygen recovery system [NASA-CR-192343] p 234 N93-22663 Integrated oxygen recovery system [NASA-CR-192982] p 267 N93-26088 Little (Arthur D.), Inc., Cambridge, MA. Hybrid oxygen system [AD-A262417] p 317 N93-28464 Litton Systems (Canada) Ltd., Rexdale (Ontario). The active-matrix LC head-down display (AM-LCD): Operational experience and growth potential p 148 N93-19782 Lockheed Engineering and Sciences Co., Houston, TX. Astronaut candidate strength measurement using the Cybex 2 and the LIDO Multi-Joint 2 dynamometers p 34 N93-12195 [NASA-CR-185679] Methodology issues concerning the accuracy of kinematic data collection and analysis using the ariel performance analysis system NASA-CR-1856891 p 34 N93-12211 Occupational ergonomics in space p 68 N93-14013 Assessment of the state of the art in life support environmental control for SEI p 315 N93-27978 Lockheed Engineering and Sciences Co., Washington, Digest of Russian Space Life Sciences, issue 33 [NASA-CR-3922(39)] Lockheed Missiles and Space Co., Sunnyvale, CA. Space life support technology applications to terrestrial nvironmental problems p 265 N93-25617 Simplified Aid For Crew Rescue (SAFR) nvironmental problems p 313 N93-27793 London Univ. (England). distribution Autoradiographic and applied pharmacological characteristics of dextromethorphan and related antitissue/anticonvulsant drugs and novel analogs [AD-A255607] p 54 N93-15009 Los Alamos National Lab., NM. Self-programming of matter and the evolution of proto-biological organizations IDE92-0152441 p 5 N93-10628 Functional MRI studies of human vision on a clinical imager [DE92-017448] p 49 N93-12566 A weighted iterative algorithm for neuromagnetic imaging [DE92-040244] p 51 N93-13522 Adaptive filters for monitoring localized brain activity from surface potential time series [DE93-003795] p 217 N93-22774 Biomagnetic localization from transient quasi-static DE93-0073281 p 253 N93-25186 The acute inhalation toxicity of pyrolysis products of halon 1301

CORPORATE SOURCE	·	NASA, Washington
Evaluation of NO(x)-induced toxicity	Medical Research Council, London (England).	Potential health risks from postulated accidents involving
[AD-A261034] p 283 N93-28122 Louisiana State Univ., Baton Rouge.	The central executive component of working memory	the Pu-238 RTG on the Ulysses solar exploration mission p 43 A93-13774
A physico-chemical study of some areas of fundamental	AD-A258724 p 135 N93-20326 Memphis State Univ., TN.	mission p 43 A93-13774 Anisotropy in an ambiguous kinetic depth effect
significance to biophysics IDE92-019917 I p 40 N93-13034	Questioning mechanisms during complex learning	p 55 A93-14097
[DE92-019917] p 40 N93-13034 A physico-chemical study of some areas of fundamental	[AD-A247382] p 26 N93-11415 Mercer Univ., Macon, GA.	Human speed perception is contrast dependent p 55 A93-14119
significance to biophysics	Investigation into the common mode rejection ratio of	Hazard alerting and situational awareness in advanced
[DE92-019916] p 40 N93-13083 Louisiana Tech Univ., Ruston.	the physiological signal conditioner circuit p 245 N93-26073	air transport cockpits p 61 A93-14377 Role of atrial natriuretic peptide in systemic responses
Utilization of the graded universal testing system to	Messerschmitt-Boelkow-Blohm G.m.b.H., Munich	to acute isotonic volume expansion p 44 A93-14968
increase the efficiency for assessing aerobic and anaerobic capacity p 246 N93-26077	(Germany).	Beta-endorphin and arginine vasopressin following stressful sensory stimuli in man p 47 A93-16158
Loyola Univ., Chicago, IL.	Biochemically active layers for selective material detection sensors	Methane transport mechanisms and isotopic
Auditory processing of complex sounds across frequency channels	[MBB-Z-0440-92-PUB] p 158 N93-20959	fractionation in emergent macrophytes of an Alaskan tundra lake p 38 A93-16544
[AD-A253612] p 13 N93-10650	User areas in aircraft cockpit, using methods of rapid prototype development	Exobiology science objectives at a lunar base
	MBB-FE-315-S-PUB-0493 p 196 N93-22389	p 71 A93-17435 New pharmacologic approaches to the prevention of
M	Messerschmitt-Boelkow-Blohm G.m.b.H., Ottobrunn	space/motion sickness p 85 A93-17538
Mainstream Engineering Corp., Rockledge, FL.	(Germany). Instructions and advance training measures for the	Comet Halley as an aggregate of interstellar dust and further evidence for the photochemical formation of
Lightweight passive microclimate cooling device	improvement of human reliability	organics in the interstellar medium p 108 A93-17824
[AD-A262262] p 317 N93-28112 Marine Biological Lab., Woods Hole, MA.	[MBB-FE-313-S-PUB-0500] p 181 N93-21402 Michigan State Univ., East Lansing.	Comets and the origins and evolution of life; Proceedings of the Conference, Univ. of Wisconsin, Eau Claire, Sept.
Abstracts of papers presented at the annual meeting	Interdisciplinary research and training program in the	30-Oct. 2, 1991 p 109 A93-17976
of the Society of General Physiologists [AD-A257718] p 121 N93-1821.1	plant sciences [DE92-015919] p 5 N93-10835	Comets and the formation of biochemical compounds on the primitive earth - A review p 109 A93-1₹977
Maryland Inst. for Emergency Medical Services,	Michigan Univ., Ann Arbor.	Comets as a possible source of prebiotic molecules
Baltimore. Development and enhancement of a mode of	New techniques for positron emission tomography in	p 109 A93-17979
performance and decision making under stress in a real	the study of human neurological disorders (DE92-015353) p 23 N93-11873	The fate or organic matter during planetary accretion - Preliminary studies of the organic chemistry of
life setting [AD-A257796] p 123 N93-18363	New techniques for positron emission tomography in	experimentally shocked Murchison meteorite
Maryland Univ., Baltimore.	the study of human neurological disorders IDE93-002098 I p 95 N93-15900	p 110 A93-17984 Chemical environments of submarine hydrothermal
Development and enhancement of a model of performance and decision making under stress in a real	Non-invasive evaluation of the cardiac autonomic	systems p 74 A93-18005
life setting	nervous system by PET {DE92-041077} p 96 N93-16441	Hydrothermal organic synthesis experiments p 74 A93-18007
[AD-A255699] p 99 N93-16111 Maryland Univ., College Park.	[DE92-041077] p 96 N93-16441 Helmeted head and neck dynamics under whole-body	Eccentric exercise training as a countermeasure to
Coordinated action in 3-D space	vibration p 264 N93-25531	non-weight-bearing soleus muscle atrophy p 78 A93-20033
[AD-A249830] p 31 N93-10994 Architecture of autonomous systems	Discomfort glare from high-intensity discharge headlamps: Effects of context and experience	Effects of insulin and exercise on rat hindlimb muscles
[NASA-CR-192974] p 266 N93-26047	[PB93-174720] p 336 N93-30659	after simulated microgravity p 78 A93-20036 Conference on Correlations of Aging and Space Effects
Coordinated action in 3-D space [AD-A261418] p 261 N93-26449	Minnesota Univ., Minneapolis. Design, construction, and control of a two	on Biosystems, Oct. 30-Nov. 1, 1989, Proceedings
[AD-A261418] p 261 N93-26449 Massachusetts General Hospital, Boston.	degree-of-freedom electric direct-drive human power	p 79 A93-20651 NASA plans and opportunities p 79 A93-20652
Cognition in the brain: Investigations using positron	amplifier p 65 N93-13486 Psychophysical analyses of perceptual representations	Research on sleep, circadian rhythms and aging -
emission tomography [AD-A254280] p 14 N93-10765	(AD-A255432) p 58 N93-14510	Applications to manned spaceflight p 94 A93-20658 Aftered cell function in microgravity
Center of Excellence in laser medicine [DE92-018760] p 22 N93-11445	Mitre Corp., Bedford, MA. Measures of user-system interface effectiveness:	p 79 A93-20660
[DE92-018760] p 22 N93-11445 Massachusetts Inst. of Tech., Cambridge.	Assessment of structured judgment evaluation techniques	The pituitary - Aging and spaceflown rats p 79 A93-20661
Super auditory localization for improved human-machine interfaces	for graphical, direct-manipulation style interfaces [AD-A254493] p 63 N93-12576	Caenorhabditis elegans - A model system for space
[AD-A254699] p 34 N93-12229	Measures of user-system interface effectiveness: An	biology studies p 80 A93-20665 The life span of the biosphere revisited
Design requirements for force reflecting master	encoding scheme and indicators for assessing the usability of graphical, direct-manipulation style user interfaces	p 149 A93-21847
controllers p 139 N93-18035 Why do we see three-dimensional objects?	[AD-A260606] p 265 N93-25840	Blood volume reduction counteracts fluid shifts in water immersion p 118 A93-25206
(AD-A259892) p 224 N93-23986	Head mounted displays for virtual reality [AD-A263498] p 322 N93-29340	Human speed perception is contrast dependent
Comparative mutagenesis of human cells in vivo and in vitro	Monterey Technologies, Inc., Carmel, CA.	p 174 A93-26950 Tryptophan availability modulates serotonin release from
[DE93-012269] p 276 N93-28651	Autonomic physiological data associated with simulator discomfort	rat hypothalamic slices p 152 A93-27000
Programmable interactive system for cochlear implant electrode stimulation	[NASA-CR-177609] p 222 N93-24738	Technology test results from an intelligent, free-flying robot for crew and equipment retrieval in space
[AD-A262558] p 333 N93-29421	Mote Marine Lab., Sarasota, FL. Phytoplankton photosynthesis in natural mixed layers	p 184 A93-27037
Massachusetts Inst. of Tech., Lexington. Parametric study of diffusion-enhancement networks for	[AD-A255010] p 39 N93-12871	Neutral buoyancy simulation of space telerobotics operations p 185 A93-27038
spatiotemporal grouping in real-time artificial vision	Mount Sinal School of Medicine, New York, NY. NASA supporting studies for microgravity research on	Effects of running the Bostom Marathon on plasma
[AD-A256059] p 58 N93-14580 Massachusetts Univ., Amherst.	eye movements	concentrations of large neutral amino acids p 160 A93-27048
Adaptation to transient postural perturbations	[NASA-CR-193233] p 285 N93-29041	Effect of chronic D-fenfluramine administration on rat
[NASA-CR-190959] p 105 N93-16699 Materials Research Labs., Ascot Vale (Australia).	N	hypothalamic serotonin levels and release p 152 A93-27049
Membrane technology: A search for membranes for	N	Dopamine release in rat striatum - Physiological coupling
submarine atmosphere control [AD-A260581] p 266 N93-25904	Nagoya Univ. (Japan). Telescience testbedding for physiological experiments	to tyrosine supply p 152 A93-27050 The earliest fossil evidence for sexual dimorphism in
McDonnell-Douglas Space Systems Co., Houston, TX.	under hypobaric hypoxic conditions p 220 N93-24398	primates p 152 A93-27775
Intelligent fault management for the Space Station active thermal control system p 32 N93-11930	National Academy of Sciences - National Research	Long-range anticorrelations and non-Gaussian behavior
Hyperbaric treatment p 360 N93-31454	Council, Washington, DC. Assessment of programs in space biology and	of the heartbeat p 161 A93-28049 Habitable zones around main sequence stars
Daily exercise routines p 360 N93-31455	medicine	p 197 A93-28376
McDonnell-Douglas Space Systems Co., Huntington Beach, CA.	[NASA-CR-190930] p 41 N93-13327 Body composition and physical performance	Preservation of biological information in thermal spring deposits - Developing a strategy for the search for fossil
Distributed environmental control p 32 N93-11924	[AD-A255627] p 69 N93-14161	life on Mars p 197 A93-28377
Evolving EVA system capability for the evolving Space Station Freedom requirements p 312 N93-27791	Monitoring human tissues for toxic substances [PB92-223239] p 173 N93-21498	Thermoregulatory responses of rhesus monkeys during
Atmospheric control systems p 365 N93-31456	National Aeronautics and Space Administration,	spaceflight p 154 A93-28706 Localization of extracellular matrix components in
Rotational speed control p 365 N93-31457	Washington, DC. The space life sciences strategy for the 21st century	developing mouse salivary glands by confocal
Vibration isolation p 365 N93-31458 McDonnell-Douglas Space Systems Co., Huntsville, AL.	p 1 A93-10636	microscopy p 155 A93-28725 Alterations in biosynthetic accumulation of collagen
Space Station ECLSS integration analysis	Electronystagmography and audio potentials in space flight p 9 A93-11675	types I and III during growth and morphogenesis of
[NASA-CR-192470] p 195 N93-22002 Technologies for ECLSS evolution	Dynamic analysis to evaluate viscoelastic passive damping augmentation for the Space Shuttle Remote	embryonic mouse salivary glands p 156 A93-28746 A distributed telerobotics system for space operations
p 311 N93-27720	Manipulator System p 28 A93-12222	p 192 A93-29132

Centralized, decentralized, and independent control of a flexible manipulator on a flexible base p 231 A93-31517 Atomic structure and chemistry of human serum p 200 A93-31628 albumin Flight-path estimation in passive low-altitude flight by visual cues p 223 A93-32004 Nucleotide-protectable labeling of sulfhydryl groups in subunit I of the ATPase from Halobacterium p 201 A93-32116 saccharovorum Effects of systemic L-tyrosine on dopamine release from rat corpus striatum and nucleus accumbens p 201 A93-32118 Serotonin release varies with brain tryptophan levels p 201 A93-32119 Melatonin and its precursors in Y79 human retinoblastoma cells - Effect of sodium butyrate p 214 A93-32120 Structure of a human monoclonal antibody Fab fragment against gp41 of human immunodeficiency virus type 1 p 203 A93-32850 Revision of the Wind River faunas, early Eocene of central Wyoming. X -Bunophorus (Mammalia. p 203 A93-33026 Artiodactyla) Alanine increases blood pressure during hypotension p 203 A93-33027 Melatonin concentrations in the sudden infant death p 203 A93-33030 Effects of their nutrient precursors on the synthesis and release of serotonin, the catecholamines, and acetylcholine - Implications for behavioral disorders p 204 A93-33033 The pineal gland - Its possible roles in human p 204 A93-33036 Tyrosine - Effects on catecholamine release p 204 A93-33038 Proposed evaluation framework for assessing operator performance with multisensor displays p 232 A93-33444 Muscle mitochondrial density after exhaustive exercise in dogs - Prolonged restricted activity and retraining p 242 A93-35498 NASA's telerobotics research program p 263 A93-35566 Laboratory simulation of organic grain mantles p 268 A93-36554 Performance consequences of automation-induced p 286 A93-39571 Microfossils of the Early Archean Apex chert - New evidence of the antiquity of life p 272 A93-40308 Absence of a growth hormone effect on rat soleus atrophy during a 4-day spaceflight p 272 A93-40548 Direct measurement of capillary blood pressure in the p 279 A93-40550 human lip Geography of end-Cretaceous marine bivalve p 273 A93-41075 Orthostatic intolerance during a 13-day bed rest does not result from increased leg compliance p 280 A93-41119 Performance and mood-state parameters during 30-day 6 deg head-down bed rest with exercise training p 281 A93-41169 Overview of NASA's 1991 Life Support Systems Analysis ISAE PAPER 9211181 p 290 A93-41310 Program development for exercise countermeasures ISAE PAPER 921140 p 292 A93-41327 Altered immunological response in mice subjected to stress and exposed to fungal spores p 274 A93-41391 |SAE PAPER 921215| A feasibility study of hand kinematics for EVA analysis rsing magnetic resonance imaging p 298 A93-41423 ISAE PAPER 9212531 Power assist EVA glove development p 299 A93-41425 |SAE PAPER 921255| NASA Specialized Center for Research and Training (NSCORT) in space environmental health p 307 A93-41517 |SAE PAPER 921358| Inactivation of a model coliphage virus in water by [SAE PAPER 921361] p 274 A93-41520 Potential health effects of fume particles on the crew ISAF PAPER 9213871 p 308 A93-41545 Potential health hazards from thermal degradation vents - Particulate vs. gas phase effects (SAF PAPER 921388) n 282 A93-41546 Design and evaluation of a payload to support plant growth onboard COMET 1 ISAE PAPER 9213891 p 308 A93-41547 Dark cycle monitoring of biological specimens on Space Station Freedom [SAE PAPER 921393] p 274 A93-41551 Visual specification of robot motion

Muscle glucose uptake in the rat after suspension with single hindlimb weight bearing p 326 A93-44178
Revision of the Wind River faunas, early Eocene of p 326 A93-44178 central Wyoming. IX - The oldest known hystricomorphous rodent (Mammalia: Rodentia) p 328 A93-44903 Separation of rat pituitary secretory granules by continuous flow electrophoresis p 329 A93-44933 In vitro selection of optimal DNA substrates for T4 RNA ligase p 329 A93-44939 Cell wall and enzyme changes during the graviresponse of the leaf-sheath pulvinus of oat (Avena sativa) p 329 A93-44941 The Minitron system for growth of small plants under controlled environment conditions p 358 A93-46471 Dynamics of auxin movement in the gravistimulated leaf-sheath pulvinus of oat (Avena sativa) p 358 A93-46472 Clinostats and centrifuges: Their use, value, and limitations in gravitational biological research; Symposium, Washington, Oct. 19, 1991, Report p 375 A93-49206 Intramuscular pressure and electromyography as indexes of force during isokinetic exercise p 380 A93-49291 Transcapillary fluid responses to lower body negative p 380 A93-49292 pressure Cerebral blood flow velocity in humans exposed to 24 h of head-down tilt p 381 A93-49295 Alternating prism exposure causes dual adaptation and generalization to a novel displacement p 388 A93-51959 Human locomotion and workload for simulated lunar and Martian environments p 394 A93-52406 Medical concerns for exploration-class missions p 386 A93-52409 Unexpected substrate specificity of T4 DNA ligase revealed by in vitro selection p 397 A93-52878 The violent environment of the origin of life - Progress nd uncertainties p 412 A93-53292 Comment on 'Summary and implications of reported and uncertainties amino acid concentrations in the Murchison meteorite' by E. L. Shock and M. D. Schulte p 412 A93-53294 Meeting human needs p 400 A93-54306 AAS PAPER 91-313 NASA's manned space flight program p 402 A93-55805 AAS PAPER 91-626 Carbonaceous chondrites and the origin of life p 412 A93-55997 Oligomerization reactions of ribonucleotides - The reaction of the 5'-phosphorimidazolide of adenosine with diadenosine pyrophosphate on montmorillonite and other p 412 A93-55998 Isolation of new ribozymes from a large pool of random p 400 A93-56548 Aerospace medicine and biology: Α continuing bibliography with indexes (supplement 365) [NASA-SP-7011(365)] p 12 N93-10075 Aerospace medicine and biology: Α continuing bibliography with indexes (supplement 360) [NASA-SP-7011(360)] p 12 N93-10076 Aerospace medicine and biology: Α continuina bibliography with indexes (supplement 364) INASA-SP-7011(364) I p 12 N93-10077 Aerospace medicine and biology: continuing bibliography with indexes (supplement 366) INASA-SP-7011(366) I p 12 N93-10079 Aerospace medicine and biology: continuing bibliography with indexes (supplement 367) [NASA-SP-7011(367)] p 12 p 12 N93-10080 NASA Space Human Factors Program p 31 N93-10890 INASA-TM-1080051 Suited for spacewalking: A teacher's quide with INASA-EP-2791 p 65 N93-13692 Aerospace medicine and biology: A continuina bibliography with indexes (supplement 368) [NASA-SP-7011(368)] p 53 p 53 N93-14603 Aerospace medicine and biology: continuing bibliography with indexes (supplement 369) | NASA-SP-7011(369) | p 53 N93-14731 Biomedical Polar Research Workshop Minutes INASA-TM-1080261 p 81 N93-16799 Epidemiologic research in Antarctica p 81 N93-16800 Summary of presentation for research on social structure, agreement, and conflict in groups in extreme and isolated environments p 99 N93-16801 NASA/NSF Antarctic Science Working Group p 81 N93-16802 Exercise during long term exposure to space: Value of p 82 N93-16807 exercise during space exploration Aerospace medicine and biology: A bibliography with indexes (supplement 370) [NASA-SP-7011(370)] p 121 A continuing N93-18108

Exobiology: The NASA program

INASA-TM-1080401

p 348 A93-42845

Cardiopulmonary discipline science plan

p 114 N93-18561

p 125 N93-19648

evaluation

Neuroscience discipline science plan p 128 N93-19882 INASA-TM-1080411 Regulatory physiology discipline science plan I NASA-TM-1080381 p 115 N93-19891 Musculoskeletal discipline science plan [NASA-TM-108039] p 128 N93-19892 Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 371) p 172 N93-20889 INASA-SP-7011(371) I Aerospace medicine and biology: A continuing bibliography with indexes (supplement 372) p 172 N93-21044 | NASA-SP-7011(372) | Environmental health discipline science plan p 173 N93-21369 INASA-TM-1080421 Space human factors discipline science plan p 194 N93-21370 INASA-TM-1080231 Life sciences utilization of Space Station Freedom p 205 N93-22622 Life sciences recruitment objectives p 205 N93-22623 Biomedical Monitoring and Countermeasures Facility p 205 N93-22624 Aerospace medicine and biology: A bibliography with indexes (supplement 373) continuing p 256 N93-26945 [NASA-SP-7011(373)] EVA/manned systems p 312 N93-27789 Aerospace medicine and biology: Abbliography with indexes (supplement 377) [NASA-SP-7011(377)] p 361 Α continuing p 361 N93-31924 National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA. Human support for Mars exploration - Issues and p 27 A93-12077 approaches Simulation and flight test evaluation of head-up-display guidance for Harrier approach transitions p 28 A93-13331 Anisotropy in an ambiguous kinetic depth effect p 55 A93-14097 Locus of the single-channel bottleneck in dual-task p 55 A93-14098 interference Human speed perception is contrast dependent p 55 A93-14119 The effects of growth temperature on the methyl sterol and phospholipid fatty acid composition of Methylococcus capsulatus (Bath) p 37 A93-14121 Altered baseline blood volume and the norepinephrine response to stress in humans p 43 A93-14123 Hazard alerting and situational awareness in advanced air transport cockpits p 61 A93-14377 Role of atrial natriuretic peptide in systemic responses p 44 A93-14968 to acute isotonic volume expansion Myosin heavy chain composition in the rat diaphragm -Effect of age and exercise training p 37 A93-14970 Rat cardiovascular responses to whole body suspension Head-down and non-head-down tilt p 37 A93-14974 Exobiology science objectives at a lunar base p 71 A93-17435 Drug effects on orthostatic intolerance induced by p 86 A93-17544 bedrest Model for the computation of self-motion in biological p 97 A93-17673 systems Factors influencing perceived angular velocity p 97 A93-17800 Comet Halley as an aggregate of interstellar dust and further evidence for the photochemical formation of organics in the interstellar medium p 108 A93-17824 Involuntary attentional capture by abrupt onsets p 97 A93-17974 Comet impacts and chemical evolution on the bombarded earth p 109 A93-17980 Distance and organization in multifunction displays p 102 A93-19986 Using the stereokinetic effect to convey depth Computationally efficient depth-from-motion displays p 102 A93-19987 Eccentric exercise training as a countermeasure to non-weight-bearing soleus muscle atrophy p 78 A93-20033 Effects of insulin and exercise on rat hindlimb muscles after simulated microgravity p 78 A93-20036 Influence of animation on dynamical judgments p 98 A93-20275 Sleep and circadian rhythms p 94 A93-20659 The pituitary - Aging and spaceflown rats p 79 A93-20661 The perception of heading during eye movements p 99 A93-20692 Computer-assisted three-dimensional reconstruction simulations of vestibular macular neural connectivities p 104 A93-20700 Visual display aid for orbital maneuvering - Design onsiderations p 135 A93-23518 Visual display aid for orbital maneuvering - Experimental considerations

p 136 A93-23519

Increased release of brain serotonin reduces vulnerability to ventricular librillation in the cat p 151 A93-26500 Human visual performance model for crewstation design 0 182 A93,26887 Pictorial communication virtuat and real environments IISBN 0-74840-008-71 p 182 A93-26896 Human speed perception is contrast dependent A93-26950 Headphone localization of speech stimuli p 176 A93-27143 Electronic map interpretation in a dual-task context p 176 A93-27144 Individual differences in airline captains' personalities, communication strategies, and crew performance n 177 A93-27175 Spatial orientation and dynamics in virtual reality systems - Lessons from flight simulation p 178 A93-27185 Exocentric judgements in real environments and stereoscopic displays p 189 A93-27190 p 189 A93-27190 Human factors issues in the use of night vision devices n 189 A93-27193 S-R compatibility effects with orthogonal stimulus and response dimensions p 179 A93-27194 Overconfidence, preview, and probability in strategic planning p 179 A93-27195 Pilot interaction with cockpit automation - Operational experiences with the Flight Management System p 189 A93-27455 The possibility of life on Mars during a water-rich past p 196 A93-27887 Habitable zones around main sequence stars p 197 A93-28376 Preservation of biological information in thermal spring deposits - Developing a strategy for the search for fossil life on Mars p 197 A93-28377 The effects of growth temperature on the methyl sterol and phospholipid fatty acid composition of Methylococcus capsulatus (Bath) p 153 A93-28691 Influence of animation on dynamical judgments p 180 A93-28692 Rett syndrome - Stimulation of endogenous biogenic p 164 A93-28697 amines Normalization of cell responses in cat striate cortex p 154 A93-28700 Half-squaring in responses of cat striate cells p 157 A93-28748 Dimensions of complexity in learning from interactive p 191 A93-29111 instruction Human-like agents with posture planning ability p 192 A93-29118 A distributed telerobotics system for space operations p 192 A93-29132 Age, circadian rhythms, and sleep loss in flight crews p 211 A93-30276 Compatibility and consistency in display-control systems Implications for aircraft decision aid design p 230 A93-30454 Antagonistic otolith-visual units in cat vestibular nuclei p 199 A93-30511 Flight-path estimation in passive low-altitude flight by visual cues p 223 A93-32004 Cognitive competencies Products of genes. A93-32113 experience, and technology p 201 Purification and properties of an ATPase from Sulfolobus solfataricus p 201 A93-32115 Nucleotide-protectable labeling of sulfhydryl groups in subunit I of the ATPase from Hatobacterium saccharovorum p 201 A93-32116 Learning about primates' learning, language, and cognition p 201 A93-32124 Melatonin in human preovulatory follicular fluid p 215 A93-32474 Testing primates with joystick-based automated apparatus - Lessons from the Language Research Center's Computerized Test System p 202 A93-32651 Analyzing the path of responding in maze-solving and her tasks p 202 A93-32652 other tasks Mechanically induced alterations in cultured skeletal p 202 A93-32749 muscle growth Linear vestibuloocular reflex during motion along axes between nasooccipital and interaural p 203 A93-32773 Visual and somesthetic influences on postural orientation in the median plane p 224 A93-32782 Effects of dietary amino acids, carbohydrates, and choline on neurotransmitter synthesis p 204 A93-33031 Comparative assessment of psychomotor performance Target prediction by humans and macaques (Macaca p 204 A93-33035 mulatta)

Mechanical forces and their second messengers in

Computer-aided mechanogenesis of skeletal muscle

stimulating cell growth in vitro

organs from single cells in vitro

p 204 A93-33043

p 205 A93-33045

virtual-reality systems performance with multisensor displays telemanipulation performance The Biological Flight Research Facility specification of contact severity research systems halophiles isolated from ancient salt deposits three-dimensional audio systems motion-induced emesis in cats human lip (SLS-1) Workshop ISAE PAPER 9211181 habitation ISAE PAPER 9211211 in computer-aided crewstation design [SAE PAPER 921135] The Centrifuge Facility Life configuration study [SAE PAPER 921158] Test Facility [SAE PAPER 921199] Outpost [SAE PAPER 921287] activity | SAE PAPER 921303 | systems |SAE PAPER 921311| and water droplets from air | SAE PAPER 921322 | long range missions |SAE PAPER 921351 | ISAE PAPER 9213551 Tests characterizing bioprocessor analytical modeling | SAE PAPER 921357 | Defining contamination control |SAE PAPER 9213861 owth onboard COMET 1 ISAE PAPER 9213891 Station Freedom ISAE PAPER 9213931 microgravity workbench

ISAE PAPER 9213941

Space Exploration Initiative

p 346 A93-42128

Habitat automation

NASA, Ames Research Center Studies of the field-of-view resolution tradeoff in Influence of simulated microgravity on the maximal p 232 A93-33443 oxygen consumption of nontrained and trained rats Proposed evaluation framework for assessing operator p 323 A93-42192 Xylazine emesis, vohimbine and motion sickness p 232 A93-33444 susceptibility in the cat p 324 A93-42450 The design of virtual spaces and virtual environments Muscle glucose uptake in the rat after suspension with p 232 A93-33445 single hindlimb weight bearing p 326 A93-44178 Spaceflight on STS-48 and earth-based unweighting Depth cue interaction in telepresence and simulated p 232 A93-33446 produce similar effects on skeletal muscle of young rats p 326 A93-44179 Timing considerations of Helmet Mounted Display Activity-induced regulation of myosin isoform distribution p 233 A93-33449 - Comparison of two contractile activity programs p 239 A93-34581 p 326 A93-44183 Things that go bump in the light - On the optical Interaction of various mechanical activity models in p 256 A93-35099 regulation of myosin heavy chain isoform expression Muscle mitochondrial density after exhaustive exercise p 327 A93-44184 Relevance of antarctic microbial ecosystems to in dogs - Prolonged restricted activity and retraining exobiology p 242 A93-35498 p 355 A93-44877 Stimulation of lettuce productivity by manipulation of Helmet Mounted Display symbology p 263 integration p 327 A93-44879 A93-35914 diurnal temperature and light Visual cues in low-level flight - Implications for pilotage. Modification of yield and chlorophyll content in leaf lettuce by HPS radiation and nitrogen treatments training, simulation, and enhanced/synthetic vision p 328 A93-44880 p 264 A93-35918 The impact of visual noise on spatial orientation The role of spatial attention in visual word processing p 339 A93-44922 p 257 A93-36229 Comparison of membrane ATPases from extreme Behavioral asymmetries of psychomotor performance in rhesus monkeys (Macaca mulatta) - A dissociation p 243 A93-36557 between hand preference and skill p 339 A93-44923 Perceptual effects of synthetic reverberation on Vestibular afferent responses to microrotational stimuli p 257 A93-36583 o`328 A93-44930 Hair cell tufts and afferent innervation of the bullfrog And we were tired' fatigue and aircrew errors p 264 A93-37070 crista ampullaris p 329 A93-44931 Effects of spaceflight on the spermatogonial population 8-OH-DPAT does not interfere with habituation to p 329 of rat seminiferous epithelium A93-44935 p 271 A93-38451 Perceptual bias for forward-facing motion Direct measurement of capillary blood pressure in the p 279 A93-40550 p 339 A93-44940 Performance under dichoptic versus binocular viewing Effects of incandescent radiation on photosynthesis, growth rate and yield of 'Waldmann's Green' leaf lettuce conditions - Effects of attention and task requirements p 357 A93-46468 p 287 A93-40772 Growth and yield characteristics of 'Waldmann's Green Norepinephrine content in discrete brain areas and neurohypophysial vasopressin in rats after a 9-d spaceflight leaf lettuce under different photon fluxes from metal halide or incandescent + fluorescent radiation p 273 A93-41167 Performance and mood-state parameters during 30-day p 357 A93-46469 6 deg head-down bed rest with exercise training Minitron II system for precise control of the plant growth nvironment p 357 A93-46470 environment n 281 A93-41169 Flight crew sleep during multiple layover polar flights Overview of NASA's 1991 Life Support Systems Analysis p 380 A93-49226 Intramuscular pressure and electromyography as n 290 A93-41310 indexes of force during isokinetic exercise Recycling and source reduction for long duration space p 380 A93-49291 Transcapillary fluid responses to lower body negative p 290 A93-41313 Visualization and modeling of factors influencing visibility ressure p 380 Å93-Å9292 Effect of hindlimb unweighting on single soleus fiber pressure maximal shortening velocity and ATPase activity p 292 A93-41323 p 377 A93-49294 Sciences Glovebox Cerebral blood flow velocity in humans exposed to 24 h of head-down tilt p 381 A93-49295 p 293 A93-41341 An approach to the functional optimization of the CELSS Alternating prism exposure causes dual adaptation and generalization to a novel displacement p 388 A93-51959 p 295 A93-41375 Consumables and wastes estimations for the First Lunar Human locomotion and workload for simulated lunar and p 394 A93-52406 Martian environments Modeling strategic behavior in human-automation interaction - Why an 'aid' can (and should) go unused p 302 A93-41453 Metabolic responses to simulated extravehicular p 394 A93-52502 Cockpit checklists - Concepts, design, and use p 282 A93-41468 p 389 A93-52506 Biodeterioration of materials in water reclamation Headphone localization of speech p 394 A93-52507 p 303 A93-41473 Line-of-sight determination in real-time simulations A novel membrane device for the removal of water vapor [AIAA PAPER 93-3567] p 406 A93-52666 Human factors with nonhumans -Factors that affect p 304 A93-41484 computer-task performance p 404 A93-52721 Water reclamation technology development for future a 3D audio room p 408 A93-53125 Virtual environment display simulation p 306 A93-41510 The violent environment of the origin of life - Progress Plant canopy transpiration in bioregenerative life support and uncertainties p 412 A93-53292 systems - The link between mechanistic and empirical Incineration for resource recovery in a closed ecological p 409 A93-54826 life support system p 306 A93-41514 hardware A simple hindlimb suspension apparatus p 398 A93-55168 p 307 A93-41516 Satiation or availability? Effects of attention, memory, requirements for and imagery on the perception of ambiguous figures p 405 A93-55348 non-human research on Space Station Freedom p 308 A93-41544 Effect of insulin-like factors on glucose transport activity Design and evaluation of a payload to support plant in unweighted rat skeletal muscle p 399 A93-55458 Role of the vestibular end organs in experimental motion p 308 A93-41547 p 399 A93-55933 sickness - A primate model Dark cycle monitoring of biological specimens on Space Animal models in motion sickness research p 399 A93-55936 p 274 A93-41551 Investigating motion sickness using the conditioned The General Purpose Work Station, a spacious p 400 A93-55937 taste aversion paradigm Autogenic-feedback training - A treatment for motion p 309 A93-41552 p 404 A93-55946 and space sickness Regenerative life support technology challenges for the

p 33 N93-11976

Effect of hemorrhage on cardiac output, vasopressin,	Emiropmental manifestary and account of
aldosterone, and diuresis during immersion in men	Environmental monitoring and research at
	Kennedy Space Center p 154
	Controlled ecological life-support system -
Techniques for optimal crop selection in a controlled	for human life-support in space p 190
ecological life support system	Challenges of space medical operation
[NASA-TM-103950] p 33 N93-12018	sciences management p 155
An overview of gravitational physiology	Biomedical engineering - A means to add no
[NASA-TM-102849] p 35 N93-12319	to medicine and research p 190
A voyage to Mars: A challenge to collaboration between	Skeletal muscle responses to unloading
man and machines p 70 N93-14614	reference to man p 166
Passive zero-gravity leg restraint	Cardiovascular physiology - Effects of mic
[NASA-CASE-ARC-11882-1-CU] p 70 N93-14713	p 166
NASA/NSF Workshop on Antarctic Research	
	A comparison of neural network and fuz
p 81 N93-16803	techniques in segmenting magnetic resonant
Exobiology in Solar System Exploration	the brain p 214
[NASA-SP-512] p 112 N93-18545	Enhanced carotid-cardiac baroreflex res
Overview: Exobiology in solar system exploration	elimination of orthostatic hypotension 24 hour
p 112 N93-18546	exercise in paraplegics p 216
Venus: A search for clues to early biological	Mapping of electrical muscle stimulation us
possibilities p 113 N93-18549	p 279
Mars: A reassessment of its interest to biology	OCAM - A CELSS modeling tool: Des
p 113 N93-18550	results
Giant planets: Clues on current and past organic	[SAE PAPER 921241] p 298
chemistry in the outer solar system p 113 N93-18551	Advanced life support systems in lunar a
Europa: Prospects for an ocean and exobiological	environments utilizing a higher plant based
implications p 113 N93-18552	paradigm
Titan p 114 N93-18553	[SAE PAPER 921286] p 302
Effect of contrast on human speed perception	Phenytoin as a countermeasure for motion
[NASA-TM-103898] p 141 N93-19104	NASA maritime operations p 401
A membrane-based subsystem for water-vapor recovery	Engineering verification of the biomass
from plant-growth chambers	chamber p 67
[NASA-CR-177602] p 149 N93-20065	Scenarios for optimizing potato productivi
Studying the effects of microgravity on lower vertebrate	CELSS p 67
development and behavior p 158 N93-21099	Toxic substances registry system: Index
Operator-assisted planning and execution of proximity	safety data sheets
operations subject to operational constraints	[NASA-TM-108582] p 172
p 194 N93-21436	National Aeronautics and Space Administration
Closed Ecological Life Support Systems (CELSS) Test	Lyndon B. Johnson Space Center, Housto
Facility p 233 N93-22628	The influence of prior exercise at anaerob
A demonstration of motion base design alternatives for	on decompression sickness p 8
the National Advanced Driving Simulator	Electronystagmography and audio potentia
	flight p 9
[NASA-TM-103881] p 236 N93-24490	
Space biology research development	Role of atrial natriuretic peptide in systemi
[NASA-CR-192830] p 244 N93-25242	to acute isotonic volume expansion p 44
Vascular uptake of rehydration fluids in hypohydrated	Time to detection of circulating microbubb
men at rest and exercise	factor for symptoms of altitude decompression
[NASA-TM-103942] p 255 N93-26133	p 46
Automation and robotics human performance	Beta-endorphin and arginine vasopress
[NASA-CR-193049] p 267 N93-26153	stressful sensory stimuli in man p 47
Extravehicular activity technology discipline	Blood and urine responses to ingesting fluid
p 314 N93-27859	salt and glucose concentrations p 83
Manned systems technology discipline	Development of lower body negative pre
p 314 N93-27860	countermeasure for orthostatic intolerance
Helicopter simulation: An aircrew training and	p 83
qualification perspective p 342 N93-30676	Orthostatic function during a stand test before
Training effectiveness assessment: Where are we?	head-up or head-down bedrest p 84
p 342 N93-30679	Human vestibular function and weightlessn
Current training: Where are we? p 342 N93-30680	p 84
	First intramuscular administration in the
Training effectiveness assessment: Methodological problems and issues p 342 N93-30684	program p 84
National Aeronautics and Space Administration.	Metabolic changes observed in astronauts
Goddard Space Flight Center, Greenbelt, MD.	p 84
Characteristics and requirements of robotic manipulators	Pharmacologic considerations for Shuttle a
for space operations p 182 A93-27003	- p 85
Evaluating robot procedures and tasks for the flight	New pharmacologic approaches to the p
telerobotic servicer p 187 A93-27156	space/motion sickness p 85
Recent developments at the Goddard Engineering Test	Optimal sampling theory and population
Bed p 192 A93-29115	Application to determination of the influ
The Servicing Aid Tool p 192 A93-29116	microgravity environment on drug distri
Safety issues of manipulator systems under computer	elimination p 85
control p 192 A93-29121	Acute hemodynamic response to weightless
Joint-space Lyapunov-based direct adaptive control of	parabolic flight p 86
a kinematically redundant telerobot manipulator	Changes in total body water during spacefl
p 407 A93-53038	p 86
Compliant walker	Cardiovascular adaptation to spaceflight
	p 86
National Aeronautics and Space Administration. John	Echocardiographic evaluation of the card
F. Kennedy Space Center, Cocoa Beach, FL.	effects of short-duration spaceflight p 87
Altered baseline blood volume and the norepinephrine	Space medicine - Answering the challenge
response to stress in humans p 43 A93-14123	p 87
Magnetic resonance imaging and electromyography as	Cerebral blood flow - Comparison of ground
indexes of muscle function p 44 A93-14975	spaceflight data and correlation with space
Effects of acute exercise on attenuated vagal baroreflex	syndrome p 87
function during bed rest p 48 A93-16160	Regional changes in muscle mass following
Controlled Ecological Life Support System - CELSS	of bed rest p 93
p 62 A93-17432	Cardiovascular physiology in space flight
Controlled Ecological Life Support System (CELSS)	p 93
modeling p 137 A93-25308	Can the adult skeleton recover lost bone?
	p 93
Carotid-cardiac baroreflex response and LBNP tolerance	The pituitary - Aging and spaceflown rats
following resistance training p 164 A93-28696	p 79
Health services at the Kennedy Space Center p 154 A93-28711	p / 9
p 154 A93-28711	Effects of econolamina on autonomic profile
	Effects of scopolamine on autonomic profile
Emergency medical operations at Kennedy Space	motion sickness susceptibility p 116

p 166 A93-28713

```
t the John F.
                                                                 Future needs for space robots for SEI
                                            A93-28714
                                                                                                   p 182 A93-27002
                                           Use of plants
                                                                 Grasp synthesis for planar and solid objects
                                            A93-28715
                                                                                                   p 184 A93-27034
                                           ons and life
                                                                 Technology test results from an intelligent, free-flying
                                            A93-28716
                                                               robot for crew and equipment retrieval in space
                                           ew dimension
                                                                                                   p 184 A93-27037
                                            A93-28717
                                                                 Adaptive strategies of remote systems operators
                                           with special
                                                               exposed to perturbed carnera-viewing conditions
                                            A93-28718
                                                                                                   p 187 A93-27155
                                           rogravity
                                                                 Task-analytic evaluations of Space Station Freedom
                                            A93-28719
                                                               workstations
                                                                                                   p 187 A93-27157
                                           zy clustering
                                                                Display format and highlight validity effects on search
                                           ce images of
                                            A93-31267
                                                               performance using complex visual displays
                                                                                                   p 187 A93-27160
                                           ponse and
                                                                 Using GOMS models and hypertext to create
                                           s after acute
                                                               representations of medical procedures for online display
                                            A93-32781
                                                                                                   p 188 A93-27170
                                           sing MRI
                                            A93-40549
                                                                 An improved simulation based biomechanical model to
                                                              estimate static muscle loadings
                                                                                                   p 160 A93-27172
                                           cription and
                                                                Networked simulation for team training of Space Station
                                            A93-41413
                                                               astronauts, ground controllers, and scientists - A training
                                           and Martian
                                                                                                  p 179 A93-27188
                                                              and development environment
                                            engineering
                                                                Atrial natriuretic peptide degradation by CPA47 cells -
                                                              Evidence for a divalent cation-independent cell-surface
                                            A93-41452
                                                                                                  p 155 A93-28726
                                                              proteolytic activity
                                            sickness in
                                                                In vivo testing confirms a blunting of the human
                                            A93-55162
                                                              cell-mediated immune mechanism during space flight
                                           s production
                                                                                                  p 167 A93-28732
                                            N93-13996
                                                                Neurology of microgravity and space travel
                                           ty in a lunai
                                                                                                  p 168 A93-28735
                                            N93-13997
                                                                Cooperative intelligent robotics in space III; Proceedings
                                           of material
                                                              of the Meeting, Boston, MA, Nov. 16-18, 1992
                                                              I SPIE-1829 |
                                                                                                  p 190 A93-29101
                                            N93-20998
                                                                Person-like intelligent systems architectures for robotic
                                          tion.
on, TX.
                                                              shared control and automated operations
                                                                                                  p 191 A93-29113
                                           ic threshold
                                                                Telerobotic system performance
                                                                                                    measurement
                                            A93-10333
                                                              Motivation and methods
                                                                                                  p 191 A93-29114
                                           als in space
                                                                Human-like agents with posture planning ability
                                            A93-11675
                                                                                                  p 192 A93-29118
                                           c responses
                                                                A distributed telerobotics system for space operations
                                            A93-14968
                                                                                                  p 192 A93-29132
                                           es as a risk
                                                                Testbed for remote telepresence research
                                           on sickness
                                                                                                  p 193 A93-29135
                                            A93-16153
                                                                An experiment in vision based autonomous grasping
                                           sin following
A93-16158
                                                              within a reduced gravity environment
                                                                                                  p 193 A93-29137
                                           ds of various
                                                                Multicultural factors in the space environment - Results
                                            A93-17528
                                                              of an international shuttle crew debrief
                                           ssure as a
                                                                                                  p 222 A93-30277
                                                                Treatment efficacy of intramuscular promethazine for
                                            A93-17529
                                                              Space Motion Sickness
                                                                                                  p 212 A93-30283
                                           ore and after
                                                                Limitations to the study of man in space in the U.S.
                                                                                                  p 213 A93-30285
                                            A93-17530
                                                              space program
                                           ess
                                                                Prevention of space flight induced soft tissue
                                            A93-17531
                                                              calcification and disuse osteoporosis
                                           U.S. space
A93-17534
                                                                                                  p 214 A93-31545
                                                                Relation between perception of vertical axis rotation and
                                                              vestibulo-ocular reflex symmetry
                                                                                                  p 214 A93-32176
                                            A93-17535
                                                                Single particle effects, Biostack, and risk evaluation -
                                           stronauts
                                                              Studies on the radiation risk from Galactic cosmic rays
                                            A93-17537
                                                                                                  p 202 A93-32243
                                           evention of
                                                                Human low vision image warping - Channel matching onsiderations p 231 A93-32444
                                            A93-17538
                                                              considerations
                                           modelling -
                                                                Response characteristics of the human torsional
                                           ence of the
                                                              vestibuloocular reflex
                                                                                                  p 215 A93-32774
                                           bution and
A93-17542
                                                                Development of a large space robot - A multi-segment
                                                              approach I
                                                              [AIAA PAPER 93-1463]
                                           sness during
                                                                                                  p 261 A93-34012
                                            A93-17547
                                                                Development of a large space robot - A multi-segment
                                           iaht
                                                              approach. II
                                            A93-17548
                                                              [AIAA PAPER 93-1464]
                                                                                                  p 262 A93-34013
                                                                Body fluid alterations during head-down bed rest in men
                                            A93-17550
                                                              at moderate altitude
                                                                                                  p 251 A93-35493
                                                                Effects of prolonged head-down bed rest on
                                            A93-17551
                                                              physiological responses to moderate hypoxia
                                                                                                  p 251 A93-35494
                                            A93-17552
                                                                Human performance and physiological function during
                                           d-based and
                                                              a 24-hr exposure to 1 percent bromotrifluoromethane
                                           e adaptation
                                                              (Halon 1301)
                                                                                                  p 277 A93-39704
                                            A93-17553
                                                                Toxicokinetics of inhaled bromotrifluoromethane (Halon
                                           g 17 weeks
                                                              1301) in human subjects p 278 A93-39705
Orthostatic intolerance during a 13-day bed rest does
                                            A93-20039
                                                              not result from increased leg compliance
                                                                                                  p 280 A93-41119
                                            A93-20654
                                                                Cerebral blood velocity and other cardiovascular
                                            A93-20656
                                                              responses to 2 days of head-down tilt
                                                                                                  n 280 A93-41122
                                            A93-20661
                                                                Overview of NASA's 1991 Life Support Systems Analysis
                                           s underlyina
                                            A93-24037
                                                              ISAE PAPER 9211181
                                                                                                  p 290 A93-41310
                                            A93-24047
                                                                Analysis of the Variable Pressure Growth Chamber using
                                                              the CASE/A simulation package
  Blood volume reduction counteracts fluid shifts in water
                                    p 118 A93-25206
                                                              ISAE PAPER 9211221
immersion
                                                                                                  p 291 A93-41314
```

Space Station Freedom Environmental Health Care |SAE PAPER 921138| p 292 A93-41325 Program development for exercise countermeasures ISAE PAPER 921140 p 292 A93-41327 A comparison of two Shuttle launch and entry suits -Reach envelope, isokinetic strength, and treadmill tests |SAE PAPER 921154| p 293 A93-41337 Pilot investigation - Nominal crew induced forces in zero-g |SAE PAPER 921155| p 293 A93-41338 Operational space human factors - Methodology for a DSÓ ISAE PAPER 9211561 p 293 A93-41339 A study to explore locomotion patterns in partial gravity environments [SAE PAPER 921157] p 293 A93-41340 Design of a Shuttle air and water prefilter for reduced gravity operation |SAE PAPER 921161| p 294 A93-41343 Conceptual design of ECLSS microgravity test beds p 294 A93-41346 A systems approach to water recovery testing for space life support - Initial biomedical results from the ECLSS Water Recovery Test and plans for testbed utilization [SAE PAPER 921210] p 295 A93-41386 Microbiology operations and facilities restructured Space Station Freedom [SAE PAPER 921213] p 296 A93-41389 Effects of refrigerating preinoculated Vitek cards on microbial physiology and antibiotic susceptibility [SAE PAPER 921214] p 273 Á93-41390 Altered immunological response in mice subjected to stress and exposed to fungal spores [SAE PAPER 921215] p 274 A93-41391 Microbiological concerns and methodological approaches related to bacterial water quality in [SAE PAPER 921232] p 297 A93-41406 Space Station Freedom food management [SAE PAPER 921248] p 298 A93-41419 Enhanced softgoods structures for spacesuit micrometeoroid/debris protective systems SAE PAPER 921258] p 299 A93-41428 The development and testing of a volatile organics [SAE PAPER 921258] concentrator for use in monitoring Space Station water [SAE PAPER 921266] p 300 A93-41436 Evaluation of capillary electrophoresis for in-flight ionic contaminant monitoring of SSF potable water [SAE PAPER 921268] p 300 A93-41438 An assessment of waste processing/resource recovery technologies for lunar/Mars life applications [SAE PAPER 921271] p 300 A93-41441
Post-treatment of reclaimed waste water based on an lectrochemical advanced oxidation process [SAE PAPER 921275] p 301 A93-41444 A hybrid regenerative water recovery system for lunar/Mars life support applications (SAE PAPER 921276) p 301 A93-41445 Development of a regenerable metal oxide sheet matrix p 302 A93-41463 ISAE PAPER 9212981 Portable life support system regenerative carbon dioxide and water vapor removal by metal oxide absorbents preprototype hardware development and testing SAE PAPER 9212991 p 303 A93-41464 Biofilm formation and control in a simulated spacecraft water system - Three year results [SAE PAPER 921310] p 303 A93-41472 Use of sorption technology for treatment of humidity condensate for potable water D 303 A93-41474 Regenerable Microbial Check Valve - Life cycle tests ISAE PAPER 9213161 p 303 A93-41478 breadboard Operation of liquid-sorbent/membrane-contactor system for removing carbon dioxide and water vapor from air p 304 A93-41483 ISAE PAPER 9213211 Performance evaluation of candidate space suit lements for the next generation orbital EMU [SAE PAPER 921344] p 305 A93-41503 Space Shuttle compartment debris-contamination [SAE PAPER 921345] p 305 A93-41504 Space Shuttle Orbiter oxygen partial pressure sensing and control system improvements SAE PAPER 921347 p 305 A93-41506 Shuttle Orbiter Environmental Control and Life Support System - Flight experience ISAF PAPER 9213481 p 305 A93-41507 Modeling of membrane processes for air revitalization and water recovery

|SAE PAPER 921352|

Plant canopy transpiration in bioregenerative life support systems - The link between mechanistic and empirical models ISAE PAPER 9213551 p 306 A93-41514 Plant growth modeling at the JSC variable pressure growth chamber - An application of experimental design ISAE PAPER 9213561 p 307 A93-41515 ASDA - Advanced Suit Design Analyzer computer p 308 A93-41539 ISAE PAPER 9213811 First entry operations for spacecraft | ISAE PAPER 921384 | p 308 | Regenerative Life Support Systems p 308 A93-41542 Test Bed erformance - Lettuce crop characterization p 309 A93-41549 |SAE PAPER 921391| Setting Spacecraft Maximum Allowable Concentrations for 1 hour or 24 hour contingency exposures to airborne chemicals |SAE PAPER 921410| p 310 A93-41564 The role of Environmental Health System air quality monitors in Space Station Contingency Operations [SAE PAPER 921414] p 310 A93-41565 EVA operational guidelines and considerations for use during the Space Station Freedom design review p 345 A93-42119 Utilization of on-site resources for Regenerative Life Support Systems at a lunar outpost p 346 A93-42124
An analysis of human performance in simulated p 347 A93-42173 partial-gravity environments Response of a mouse hybridoma cell line to heat shock. agitation, and sparging p 328 A93-44928 Intracellular proteins produced by mammalian cells in response to environmental stress p 328 A93-44929 The internal dynamics of slowly rotating biological p 375 A93-49208 systems Changes in the dark focus of accommodation associated with simulator sickness p 379 A93-49222 Transcapillary fluid responses to lower body negative essure p 380 A93-49292 Spatial orientation, adaptation, and motion sickness in real and virtual environments p 382 A93-49403 Mental rotation - A key to mitigation of motion sickness p 387 A93-49404 in the virtual environments? Depth-dose equivalent relationship for cosmic rays at various solar minima p 391 A93-49564 Microwave digestion preparation and ICP determination of boron in human plasma p 377 A93-49570 Human-in-the-loop evaluation of RMS Active Damping Augmentation [AIAA PAPER 93-3875] p 393 A93-51460 Comparison of treatment strategies for space motion sickness p 386 A93-52402 Pulmonary diffusing capacity, capillary blood volume, and cardiac output during sustained microgravity p 386 A93-52617 Design of a reading test for low vision image warping p 400 A93-53025 Role of the vestibular end organs in experimental motion p 399 A93-55933 sickness - A primate model Physiology of motion sickness symptoms p 403 A93-55939 Space motion sickness monitoring experiment -pacelab 1 p 403 A93-55941 Spacelab 1 Statistical prediction of space motion sickness p 403 A93-55943 Method for culturing mammalian cells in a perfused bioreactor [NASA-CASE-MSC-21293-2] p.4 N93-10109 Method for culturing mammalian cells in a horizontally rotated bioreactor [NASA-CASE-MSC-21294-2] p 5 N93-10110 The locator system for wandering individuals INASA-TM-1047541 p 31 N93-11649 A health care system for the Space Station p 65 N93-13571 [NASA-TM-108093] Crop growth and associated life support for a lunar p 67 N93-13994 Technology development for lunar base water p 67 N93-13999 recyclina The lunar community church: Contributions to lunar living and to evolution of ethical and spiritual thinking p 57 N93-14020 A comparison of hand grasp breakaway strengths and bare-handed grip strengths of the astronauts, SML 3 test subjects, and the subjects from the general population INASA-TP-32861 p 96 N93-16619 Infectious disease p 81 N93-16804 p 81 N93-16805 Nutrition Kinetic tetrazolium microtiter assay p 82 N93-17049 INASA-CASE-MSC-21979-11 Control system and method for prosthetic devices

```
Regenerable biocide delivery unit
                                      p 112 N93-18351
  INASA-CASE-MSC-21763-1-SBI
                                      p 113 N93-18548
    The Moon: Biogenic elements
    High density cell culture system
                                      p 114 N93-19037
  INASA-CASE-MSC-22060-11
    Active synthetic soil
  INASA-CASE-MSC-21954-1-NPI
                                      p 114 N93-19054
    Radiological assessment for Space Station Freedom
  INASA-TM-1047581
                                      p 128 N93-20303
    Effect of aerobic capacity on Lower Body Negative
  Pressure (LBNP) tolerance in females
                                      p 128 N93-20318
  INASA-TP-32981
    Physiological responses to wearing the space shuttle
  launch and entry suit and the prototype advanced crew
  escape suit compared to the unsuited condition
  [NASA-TP-3297]
                                      p 149 N93-20319
p 217 N93-22630
    Crew health
    Zero-G life support for Space Station Freedom
                                     p 233 N93-22640
    Evaluation of hole sizes in structures requiring EVA
  services as a means to prevent gloved-hand finger
  entrapment
  INASA TM-104767 I
                                      n 234 N93-23129
    Two techniques for measuring locomotion impact forces
  during zero G
  INASA-TP-33051
                                     p 217 N93-23410
    Comparison of total body water estimates from O-18
  and bioelectrical response prediction equations
                                     p 218 N93-23734
  [NASA-TP-3299]
    Measuring the metastatic potential of cancer cells
                                     p 244 N93-25566
    MAC to VAX connectivity: Heartrate spectral analysis
                                      p 254 N93-25594
  system
    The application of integrated knowledge-based systems
  for the Biomedical Risk Assessment Intelligent Network
                                      p 258 N93-25595
  (BRAIN)
   Evaluation of lens distortion errors in video-based motion
 analysis
INASA-TP-32661
                                     p 258 N93-25736
   JSC ECLSS R/T program overview
                                     p 312 N93-27725
p 312 N93-27787
   Extravehicular activity system
   Man-systems distributed system for Space Station
                                     p 312 N93-27788
   Evolving technologies for Space Station Freedom
                                     p 313 N93-27794
  computer-based workstations
   Anthropometric data from launch and entry suited test
  subjects for the design of a recumbent seating system
  |NASA-TM-104769|
                                     p 321 N93-29044
  Anthropometric survey of the astronaut applicants and astronauts from 1985 to 1991
 [NASA-RP-1304]
                                     p 321 N93-29324
   Pharmacokinetics and Pharmacodynamics in Space
NASA-CP-10048 p 333 N93-29502
 | NASA-CP-10048 |
   An accelerated training method for back propagation
  networks
 [NASA-CASE-MSC-21625-1]
                                     p 340 N93-29610
  Issues on human acceleration long-duration space flights
                                       tolerance after
 NASA-TM-104753
                                      p 334 N93-29651
   Integration of advanced teleoperation technologies for
  control of space robots
                                     p 366 N93-32107
    A decision-theoretic approach to the display of
  information for time-critical decisions: The Vista project
                                     p 367 N93-32152
    Health maintenance facility system effectiveness
 testing
[NASA-TM-104737]
                                     p 372 N93-32328
National Aeronautics and Space Administration.
Langley Research Center, Hampton, VA.
    Cortical localization of cognitive function by regression
  of performance on event-related potentials
                                       р9
                                            A93-10337
    Dynamic analysis to evaluate viscoelastic passive
  damping augmentation for the Space Shuttle Remote
  Manipulator System
                                       p 28 A93-12222
   Radiation exposure predictions for long-duration-stay
  Mars missions
  | AIAA PAPER 92-4584 |
                                       p 28 A93-13288
   High-speed civil transport - Advanced flight deck
  challenges
  | AIAA PAPER 92-4231 |
                                       p 28 A93-13357
```

Radiation exposure and dose estimates for a

Hazard alerting and situational awareness in advanced

Interplanetary crew exposure estimates for galactic psmic rays p 87 A93-17975

Track structure model for damage to mammalian cell

iltures during solar proton events p 75 A93-18073 Teleoperation to robotics at Langley Research Center

Evaluation of inertial devices for the control of large,

nuclear-powered manned Mars sprint mission

air transport cockpits

cultures during solar proton events

flexible, space-based telerobotic arms

cosmic rays

p 106 N93-17087

p 106 N93-17088

p 106 N93-17442

INASA-CASE-MSC-21941-11

[NASA-CASE-MSC-21842-1]

p 306 A93-41511

Protective helmet assembly

Inflatable habitation for the lunar base

C-11

p 60 A93-13817

p 61 A93-14377

p 101 A93-18569

and

radioactive

p 359 N93-32423

p 194 N93-21537

Volume 2: Fleet

p 195 N93-21795

p 253 N93-25567

p 42 N93-13700

p 81 N93-16799

p 81 N93-16800

p 82 N93-16807

p 149 N93-20413

p 27 N93-12432

p 120 N93-17895

p 120 N93-17896

p 120 N93-17918

p 131 N93-17919

ρ 140 N93-18200

p 131 N93-18205

p 121 N93-18217

p 122 N93-18280

o 122 N93-18292

p 140 N93-18293

p 132 N93-18294

p 134 N93-19703

p 171 N93-20580

p 225 N93-24319

p 266 N93-25859

p 148 N93-19955

p 146 N93-19776

p 147

N93-19781

Man-machine interface with simulated automatic target

Adaptive autonomous target cuer p 148 N93-19784

recognition systems

p 132

Collision avoidance of a multiple degree of redundancy Micro-organisms, cytotoxins Evaluation of the carbon dioxide removal assembly manipulator operating through a window preparation: Risks at rescue operations in hospital equirements for the Space Station Freedom in the Manned p 136 A93-23846 Tended Capability through Permanently Manned Capability environment IFOA-A-40065-4.51 Interactive Scene Analysis Module - A sensor-database configurations fusion system for telerobotic environments |SAE PAPER 921231| p 297 A93-41405 National Highway Traffic Safety Administration, East p 184 A93-27032 Development of a test protocol for evaluating EVA glove Liberty, OH. performance Upper interior head protection. Volume 1. The Evaluation of conformal and body-axis attitude p 229 A93-30070 ISAE PAPER 9212541 p 298 A93-41424 development of a research test procedure information for spatial awareness The analytical control program for the NASA Space [PB93-113769] Predictive nosepointing and flightpath displays for Station Freedom Environmental Control and Life Support Upper interior head protection. air-to-air combat p 229 A93-30071 System (ECLSS) Water Recovery Test characterization and countermeasure evaluation Centralized, decentralized, and independent control of p 300 A93-41439 |SAE PAPER 921269| IPB93-1137771 a flexible manipulator on a flexible base Catalytic oxidation for treatment of ECLSS and PMMS p 231 A93-31517 National Inst. of Health, Bethesda, MD. vaste streams Immunoconjugates: Magic bullets for cancer therapy? Active vibration damping of the Space Shuttle remote ISAE PAPER 9212741 p 301 A93-41443 manipulator system p 231 A93-31993 Biodeterioration of materials in water reclamation Temporal analysis of the October 1989 proton flare using National Science Foundation, Washington, DC. Diversity in biological research computerized anatomical models p 216 A93-32785 IŠAE PAPER 9213111 p 303 A93-41473 INSF-92-191 Radiation exposure predictions for short-duration stay Determination of organic carbon and ionic accountability Biomedical Polar Research Workshop Minutes of various waste and product waters derived from ECLSS p 277 A93-39261 [NASA-TM-108026] 1AAS PAPER 92-1071 water recovery tests and Spacelab humidity condensate Epidemiologic research in Antarctica ISAE PAPER 9213131 p 303 A93-41475 Performance consequences of automation-induced Separation of rat pituitary secretory granules by 'comptacency' p 286 A93-39571 continuous flow electrophoresis p 329 A93-44933 Exercise during long term exposure to space: Value of Identification of hazardous awareness states in Space Station Freedom payload operations in the 21st exercise during space exploration monitoring environments p 350 A93-45436 National Space Development Agency, Ibaraki (Japan). [SAE PAPER 921136] p 287 A93-41324 century Physical and digital simulations for IVA robotics Study on environment control and life support Benefits, limitations, and guidelines for application of p 391 A93-49445 stereo 3-D display technology to the cockpit Microbiological analysis of debris from STS-42 IML-1 p 350 A93-44895 National Space Development Agency, Tokyo (Japan). environment by direct plating of rinse waters [NASA-TM-108375] Conceptual study on manned lunar surface site p 316 N93-28029 The effects of history and predictive information on the p 6 N93-12174 ability of the transport aircraft pilot to predict an alert A study of the effects of micro-gravity on seed Naval Aerospace Medical Research Lab., Pensacola, p 365 A93-46810 p 40 N93-13167 germination Human-in-the-loop evaluation of RMS Active Damping Bar-holding prosthetic timb The OMPAT level 1 Neurophysiological Performance Augmentation NASA-CASE-MFS-28481-1 p 70 N93-14870 Assessment Battery: NPPAB p 393 A93-51460 1 AIAA PAPER 93-38751 Wheels for wheelchairs and the like [AD-A254840] High level organizing principles for display of systems p 106 N93-17042 NASA-CASE-MFS-28632-1 Effects of dextromethamphetamine on subjective fault information for commercial flight crews Portable seat lift p 388 A93-52187 fatique [NASA-CASE-MFS-28610-1] p 106 N93-17045 [AD-A258252] Human-centered automation and AI - Ideas, insights, Bright light delivery system An automated version of the dichotic listening test: and issues from the Intelligent Cockpit Aids research [NASA-CASE-MFS-28723-1] p 96 N93-17058 p 407 A93-52764 Hardware, software, and procedural details effort Finite element analysis of a composite artificial ankle Depth-viewing-volume increase by collimation of stereo IAD-A2581141 p 174 N93-22189 The detection of lateral motion by US Navy jet pilots 3-D displays p 407 Design of a portable powered seat lift [AD-A258115] In-simulator assessment of trade-offs arising from p 195 N93-22190 mixture of color cuing and monocular, binoptic, and A review of models of the human temperature regulation p 407 A93-52916 Environmental control and life support system stereopsis cuing information system Human factors evaluation of the HL-20 full-scale p 311 N93-27718 [AD-A258023] p 409 A93-53746 Environmental control and life support system The efficacy of biographical inventory data in predicting model Human exposure to galactic cosmic rays in space evolution p 311 N93-27719 early attrition in naval aviation officer candidate training p 410 A93-54887 The ECLSS advanced automation project evolution and IAD-A258025 I Katz model prediction of Caenorhabditis elegans p 312 N93-27723 Toward the ideal military aviation sunglass technology assessment mutagenesis on STS-42 Marshall Space Flight Center ECLSS technology IAD-A2582001 An analysis of a sustained flight operation training p 50 N93-13023 INASA-TM-43831 p 312 N93-27724 activities The environmental control and life-support system for mission in Navy attack aircraft Man-systems integration and the man-machine I AD-A2581991 a lunar base: What drives its design p 66 N93-13991 p 313 N93-27795 interface Conceptual design of a lunar base thermal control Aviation medicine research: A historical review Environmental control and life support systems p 68 N93-14003 [AD-A258198] p 314 N93-27858 Target fragmentation in radiobiology A computer-based visual analog scale Amino acid sequences for the binding regions in serum [NASA-TM-4408] p 124 N93-18381 [AD-A258152] albumin proteins The unique contribution of selected personality tests to EVA and telerobot interaction p 312 N93-27792 [NASA-CASE-MFS-28402-1] p 276 N93-28952 the prediction of success in naval pilot training |AD-A258144| p 132 N93-18291 Method of encouraging attention by correlating video Computerized atmospheric trace contaminant control game difficulty with attention level simulation for manned spacecraft The effect of combat on the work/rest schedules and NASA-CASE-LAR-15022-1 n 288 N93-28128 INASA-TM-1084091 n 321 N93-28977 fatigue of A-6 and F-14 aviators during Operation Desert National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH. Process for selectively recovering algae and protozoa Shield/Storm [NASA-CASE-MFS-26124-1-NPO] p 276 N93-29174 Optimal design of composite hip implants using NASA echnology p 174 N93-22188 IAD-A258146 I Platform stair lift Using constraint satisfaction networks to study aircrew technology A fiber optic probe for the detection of cataracts [NASA-CASE-MFS-28772-1] p 353 N93-29845 selection for advanced cockpits p 254 N93-25593 Prosthetic elbow joint IAD-A258151 I Probabilistic simulation of the human factor in structural The effect of combat on aircrew subjective readiness INASA-CASE-MFS-28707-11 p 354 N93-30566 p 365 N93-31573 and LSO grades during Operation Desert Shield/Storm reliability National Aeronautics and Space Administration. National Aeronautics and Space Administration. IAD-A258156 Pasadena Office, CA. Medical evaluation of spatial disorientation mishaps Marshall Space Flight Center, Huntsville, AL. Pseudomonas screening assay Microgravity flight testing of a laboratory robot INASA-CASE-NPO-17653-1-CUI p 245 N93-25994 p 62 A93-15583 Subjective fatigue in A-6, F-14, and F/A-18 aircrews (AAS PAPER 91-035) National Aerospace Lab., Amsterdam (Netherlands).

Overview of cockpit technology research and Structure of a human monoclonal antibody Fab fragment during operations Desert Shield and Storm IAD-A2592431 against gp41 of human immunodeficiency virus type development programs for improvement of the man/machine interface: Review of the AGARD AVP p 153 A93-28698 The five-factor personality model and naval aviation Atomic structure and chemistry of human serum candidates Symposium held in Madrid, May 1992 p 200 A93-31628 AD-A260227 albumin p 320 N93-28872 Structure of a human monoclonal antibody Fab fragment Simulated sustained flight operations and performance. National Defence Research Establishment, Umea Part 1: Effects of fatigue against gp41 of human immunodeficiency virus type 1 (Sweden). p 203 A93-32850 [AD-A261012] Intracellular targeting of the Yersinia YopE cytotoxin in Phase III Integrated Water Recovery Testing at MSFC Naval Air Development Center, Warminster, PA. mammalian cells induces actin microfilament disruption Closed hygiene and potable loop test results and lesson Ventilation loss in the NASA Space Shuttle crew p 275 N93-27989 [FOA-B-40420-4.4] protective garments: Potential for heat stress learned Plasmid encoded virulence of Yersinia AD-A2585521 [SAE PAPER 921117] p 290 A93-41309 [FOA-B-40419-4.4] p 275 N93-28199 Initial accomplishments of the Environmental Control and Life Support System (ECLSS) atmosphere Naval Air Warfare Center, China Lake, CA. Characterization and classification of strains of Human factors problems for aircrew-aircraft interfaces: revitalization (AR) predevelopment operational system test Francisella tularensis isolated in the central Asian focus Where should we focus our efforts? p 144 N93-19759 of the Soviet Union and in Japan (POST) for the Space Station Freedom (SSF) A systems approach to the advanced aircraft p 294 A93-41365 IFOA-B-40421-4.4] **ISAE PAPER 9211861** p 275 N93-28200 man-machine interface

Use of RNA hybridization in the diagnosis of a case of

p 275 N93-28212

ulceroglandular tularemia

[FOA-B-40422-4.4]

invading species [SAE PAPER 921211]

Aquatic biofilms and their responses to disinfection and

p 296 A93-41387

Naval Air Warfare Center, Patuxent River, MD. Integration of exterior lighting systems and night vision imating systems p 63 N93-12732 Abridged procedural guide to aircrew anthropometric accommodation assessment IAD-A2652201 p 366 N93-32006 Naval Air Warfare Center, Warminster, PA.

Ellectiveness of NASA 1032 and 1035 and Air Force 1030 and 1034 units in protection against cold water hypothermia IAD-A2551201 p 34 N93-12291 Human performance in complex task environments: A basis for the application of adaptive automation p 35 N93-12486 [AD-A255067] Statistical analysis of the human strangulation experiments: Comparison to + Gz-induced loss of IAD-A2554851 p 54 N93-14789 The effects of display and response codes on information processing in an identification task IAD-A2595311 p 234 N93-23451 Naval Command, Control and Ocean Surveillance Center, Kailua, Hl. TeleOperator/telePresence System (TOPS) Concept Verification Model (CVM) development p 367 N93-32112 Naval Command, Control and Ocean Surveillance Center, San Diego, CA. Operator Performance Support System (OPSS) p 196 N93-22195 A simple computational model of center-surround receptive fields in the retina p 336 N93-30515 An algorithm for simple and complex feature detection: From retina to primary visual cortex p 337 N93-30897 [AD-A264306] Naval Health Research Center, San Diego, CA. Smoking status and body composition, exercise, dietary intake, and alcohol/caffeine consumption IAD-A2506481 p 23 N93-11893 Sleep inertia: Is there a worst time to wake up? AD-A2566021 p 52 N93-14240 Muscle glycogen, fiber type, aerobic fitness, and anaerobic capacity of West Coast US Navy Sea-Air-Land personnel (SEALs) p 121 N93-18209 The US Navy Healthy Back Program: Effect on back knowledge among recruits AD-A2583681 p 121 N93-18210 Combined strength and endurance training: Functional and morphological adaptations to ten weeks of training IAD-A2610591 p 267 N93-26229 Naval Medical Research and Development Command, Bethesda, MD. Behavioral effects of high peak power microwave pulses: Head exposure at 1.3 GHz [AD-A258136] p 120 N93-17985 Naval Medical Research Inst., Bethesda, MD. Statistically based decompression Linear-exponential kinetics IAD-A2576131 p 120 N93-17926 An assessment of peripheral nerve damage in the rat following non-freezing cold exposure: An electrophysiological and histopathological examination p 331 N93-30818 [AD-A264293] Hydrogen-rated system for in vitro studies at pressure: Operating procedures and emergency procedures 1AD-A2641791 p 336 N93-30882 Naval Postgraduate School, Monterey, CA. Modeling of a full vision system using combined Visual/Haptic search for remote object identification p 266 N93-25867 AD-A2609771 Performance measurement systems: A best practices study [AD-A262180] p 350 N93-29444 Naval Research Lab., Washington, DC. Direct manipulation and intermittent automation in advanced cockpits p 32 N93-11784 [AD-A253814] Naval Submarine Medical Research Lab., Groton, CT. Statistically based decompression tables. 7: Selection and treatment of primary air and N2O2 data [AD-A259090] p 172 N93-20587

Conspicuity of aids to navigation, Part 1: Temporal

Stimulus presentation formats and measurement

techniques for the quantification of target detection

Naval Undersea Warfare Center, New London, CT.

p 341 N93-30426

p 133 N93-19449

patterns for flashing lights

AD-A2646261

performance

AD-A2589331

Navy Hospital La Spezia (Italy). disease during screening procedures in the Italian Navy: Comparative evaluation of a recent quantitative automatized enzyme immunoassay method to dose specific tqE p 21 N93-11314 Nebraska Univ., Lincoln. (EVA) and Launch and Entry (LES) gloves on performance p 266 N93-26061 performance New Hampshire Univ., Durham. Receptoral and neural aliasing IAD-A2614381 p 261 N93-26489 New Orleans Univ., LA. A new instrumentation system for measuring the dynamic response of the human head/neck during impact p 143 N93-19672 acceleration New York Medical Coll., NY. transmitter release IAD-A2648291 p 336 N93-30613 New York Univ., New York. Neuromagnetic investigations of cortical regions underlying short-term memory IAD-A2557881 p 58 N93-14646 Cognition and the brain [AD-A255483] p 59 N93-14788 Biophysical and biochemical mechanisms in synaptic transmitter release p 55 N93-15198 IAD-A2563401 Higher order mechanisms of color vision [AD-A256369] p 60 N93-15329 Facilitation and interference in identification of pictures IAD-A2614841 p 260 N93-26356 Duration of alpha suppression increases with angle in a mental rotation task [AD-A261592] p 260 N93-26435 Imaging regional changes in the spontaneous activity of the brain: An extension of the minimum-norm least-squares estimate p 260 N93-26436 |AD-A261593| Neuromagnetic investigation of cortical regions underlying short-term memory [AD-A261445] p 261 N93-26521 New York Univ. Medical Center. Computing with neural maps: Application to perceptual and cognitive function AD-A2640561 Nippon Electric Co. Ltd., Tokyo (Japan). Conceptual study of manned lunar surface site p 316 N93-28031 North Carolina Agricultural and Technical State Univ., Modeling human response errors in synthetic flight p 141 N93-19464 simulator domain Modeling the performance of the human (pilot) interaction in a synthetic flight domain: Information theoretic approach p 141 N93-19465 Recognition of partially occluded threat objects using the annealed Hopefield network p 142 N93-19466 North Carolina Univ., Chapel Hill. Advanced technology for portable personal visualization IAD-A2538081 p 32 N93-11783 Auditory spectro-temporal pattern analysis p 361 N93-31981 North Dakota Univ., Grand Forks Plasma reactor waste management systems p 68 N93-14000 Distribution of human waste samples in relation to sizing aste processing in space p 68 N93-14001 waste processing in space The province and heritage of mankind reconsidered: A new beginning Nottingham Univ. (England). p 69 N93-14018 Development of Arabidopsis thaliana grown under microgravity conditions p 211 N93-24404 Oak Ridge Associated Universities, Inc., TN. Health effects of low-frequency electric and magnetic fields [DE93-005675] p 127 N93-19838 Oak Ridge National Lab., TN. Scaling issues for biodiversity protection

Kinetic studies of interfacial photocurrents in platinized

p 211 N93-25104

chloroplasts

IDE93-0023441

Pennsylvania State Univ. Human factors engineering: A key element of In vivo and in vitro diagnosis of allergic respiratory instrumentation and control system design [DE93-006731] p 264 N93-25415 Development of resonance ionization spectroscopy for genome mapping and DNA sequencing using stable isotopes as DNA labels p 246 N93-26587 IDE93-0078151 Introductions to the Proceedings of the Fourteenth Investigation of the effects of Extra Vehicular Activity Symposium on Biotechnology for Fuels and Chemicals [DE93-006235] p 276 N93-28890 Observatoire de Paris-Meudon (France). p 237 N93-23908 SETI in Europe Oesterreichisches Forschungszentrum Seibersdorf G.m.b.H., Vienna, Influence of microgravity on immune system and genetic information p 220 N93-24370 Office of Space Science and Applications, Washington, STS-40 Spacelab Life Sciences 1 (SLS-1): The first Biophysical and biochemical mechanisms in synaptic dedicated spacelab life sciences mission p 80 N93-15823 [NASA-TM-108034] Space radiation health program plan [NASA-TM-108036] p 123 N93-18375 Ohio State Univ., Columbus. Demodulation processes in auditory perception [AD-A255748] p 54 N93-15053 Cognitive and affective components of mental workload: Understanding the effects of each on human decision making behavior p 99 N93-10703
13 C NMR spectra of allosteric effectors of p 284 N93-28293 IAD-A2629791 Regulation of alternative CO2 fixation pathways in procaryotic and eucaryotic photosynthetic organisms DE93-0121091 p 276 N93-29181 Ohio Wesleyan Univ., Delaware. Analysis of retinal function following laser irradiation p 52 N93-14163 (AD-A255649) Oklahoma State Univ., Stillwater. Final results of space exposed experiment developed for students p 329 N93-29702 Omega Aerospace, Inc., Virginia Beach, VA. An on-orbit viewpoint of life sciences research p 206 N93-22629 Orbital Technologies Corp., Madison, WI. 1991 NASA Life Support Systems Analysis workshop NASA-CR-4466] p 310 N93-27100 1992 NASA Life Support Systems Analysis workshop INASA-CR-44661 [NASA-CR-4467] p 310 N93-27101 Oregon Health Sciences Univ., Portland.

Joint HVAC transmission EMF environmental study (DE92-017863) p 43 N93-15211 Oregon Regional Primate Research Center, Beaverton.

Joint HVAC transmission EMF environmental study [DE92-017863] p 43 N93-15211 Organisatie voor Toegepast Natuurwetenschappelijk Onderzoek, Delft (Netherlands). Occupant simulation as an aspect of flight safety p 142 N93-19665 research A body mass measurement device based on the p 221 N93-24400 oscillation principle An automated processing system for food frequency and nutrition knowledge questionnaire p 367 N93-32241 Oslo Univ. (Norway). Portable equipment developed to estimate energy expenditure by simultaneous recording of heart rate and body position p 368 N93-32243 Oxford Univ. (England). Formal aspects of human-computer interaction p 66 N93-13909 A modular head/eye platform for real-time reactive [OUEL-1941/92] p 320 N93-28897 Pacific Northwest Lab., Richland, WA. Radiation damage to DNA [DE92-015760] p 5 N93-10834 Human perceptual deficits as factors in computer interface test and evaluation [DE92-019124] p 63 N93-12712 Paris V Univ. (France). Study of the spectrum of power of cardiac rhythm during tasks relating to the safety of the control of an p 127 N93-19707 apparatus Paris VI Univ. (France). Gravity and root morphogenesis p 210 N93-24403 Park Seed Co., Inc., Greenwood, SC. p 6 N93-12315 Continued results of the seeds in space experiment Initial experiments with a myoelectric-based muscle p 330 N93-29703 sensor [DE92-016034] p 237 N93-25099 Pennsylvania State Univ., University Park.

p 206 N93-22649

Commercial opportunities in bioseparations and physiological testing aboard Space Station Freedom

Pennsylvania Univ. The role of pyridoxine as a countermeasure for in-flight loss of lean body mass p 255 N93-26068 Electrophoretic separation of cells and particles from rat pituitary and rat spleen INASA-CR-1930731 p 276 N93-28415 Pennsylvania Univ., Philadelphia. Computer simulations of object discrimination by visual LAD-A2533451 p 12 N93-10271 Modeling clothed figures [AD-A257037] p 71 N93-15363 The dynamics of visual representation, attention, encoding, and retrieval processes IAD-A2646741 p 342 N93-30543 Pilkington P.E. Ltd., Saint Asaph (Wales). Multi-function visor p 146 N93-19770 Pittsburgh Univ., PA. Organization of the human circadian system [AD-A264675] p 361 N93-32015 Politecnico di Milano (Italy). Ontology of mind, subjective ontology, and the example of temporal expressions [REPT-92-018] o 26 N93-11212 Portland State Univ., OR. Joint HVAC transmission EMF environmental study IDE92-0178631 p 43 N93-15211 Portuguese Air Force, Alfragide. Nutritional and lifestyle status of 50 pilots of the Portugese Air Force p 369 N93-32255 Prairie View Agricultural and Mechanical Coll., TX p 352 N93-29747 Mars habitat President's Council of Advisors on Science and Technology, Washington, DC. Achieving the promise of the bioscience revolution: The role of the Federal Government [PB93-139970] n 244 N93-25457 Princeton Univ., NJ. Physiological analyses of the afferents controlling brain neurochemical systems Programming and Systems Management, Inc., Dayton,

An innovative method for hand protection from extreme cold using heat pipe p 235 N93-24128 IAD-A2597201

Puerto Rico Univ., Rio Piedras. Selenia: A habitability study for the development of a third generation lunar base p 352 N93-29748

Purdue Univ., West Lafayette, IN. Development of physical and mathematical models for the Porous Ceramic Tube Plant Nutrification System

(PCTPNS) INASA-TM-1075511 p 4 N93-10085 Visual psychophysics of egomotion [AD-A248349] p 26 N93-11488

Q

Queens Medical Centre, Nottingham (England).

Can injury scoring techniques provide additional formation for crash investigators? p 125 N93-19663 information for crash investigators? Is axial loading a primary mechanism of injury to the lower limb in an impact aircraft accident?

p 125 N93-19664

Red Cross Hospital, The Hague (Netherlands)

Phadiatop: A screening test for inhalant allergy

Regie RENAULT, Nanterre (France).

Contribution of the analysis of ocular activity (complementary to the electroencephalographic analysis) to the detection of low vigilance in instances of piloting p 127 N93-19708

Research Inst. for Computing and Information

Systems, Houston, TX.
Mission and Safety Critical (MASC): An EVACS simulation with nested transactions [NASA-CR-192295] p 149 N93-20314

Research Triangle Inst., Research Triangle Park, NC. Survey of protocols for conducting indoor air quality investigations in large buildings p 194 N93-21215

[PB93-119865] Retina Foundation, Boston, MA.

Perception of lightness and brightness in complex patterns

AD-A254093 p 25 N93-10658 Reynolds (K. H.), McLean, VA. Preliminary lunar design study

configurations p 106 N93-17443 Rice Univ., Houston, TX.

Simulation of excitatory/inhibitory interactions in single auditory neurons IAD-A2536141 p 50 N93-13252

Comparing performance on implicit memory tests AD-A258168 | p 131 N93-17921 [AD-A258168]

Rochester Univ., NY. The perception of articulated motion: Recognizing moving light displays [AD-A256046] p 59 N93-14660

Rockefeller Univ., New York, NY.

Carboxyalkylated hemoglobin as a potential blood substitute

IAD-A2523291 p 22 N93-11561 Rockwell International Corp., Los Angeles, CA.

Virtual interface applications for airborne weapons p 318 N93-28858 systems Requirements for pilot assistance in a thrust-vectoring combat aircraft p 320 N93-28870

Rome Lab., Griffiss AFB, NY.

Time stress measurement devices for enhancement of onboard bit performance p 144 N93-19762 Rome Univ. (Italy). Silent HIV infection

p 16 N93-11293 Conversion of temporal correlations between stimuli to spatial correlations between attractors [PREPRINT-856] p 96 N93-16962

Constraints on learning in dynamic synapses p 100 N93-17026 I PREPRINT-890 I Effective neurons and attractor neural networks in cortical environment

IPREPRINT-8291 n 82 N93-17214

Royal Air Force, Farnborough (England). Management of avionics data in the cockpit

в 147 N93-19777

Royal Air Force Central Medical Establishment, London (England).

Blood lipids in aircrew recruits and in RAF aviators p 362 N93-32251

Royal Air Force Inst. of Aviation Medicine.

Farnborough (England). The physiological limitations of man in the high G environment p 319 N93-28861 Operator and automation capability analysis: Picking the

right team p 319 N93-28864 Royal Aircraft Establishment, Farnborough (England). The MOD (UK) integrated helmet technical demonstrator p 145 N93-19769

programme Royal Netherlands Air Force, Volkel. The application of Hybrid 3 dummy to the impact

p 143 N93-19671 assessment of a free-fall lifeboat Royal Norwegian Air Force, Oslo.

Changes in some lifestyle parametres in Norwegian pilots as students, and after 6 and 12 years of service p 370 N93-32261

Royal Signals and Radar Establishment, Malvern (England).

An introduction to the information processing components of the brain [RSRE-MEMO-4350] p 25 N93-10979

Ruhr Univ., Bochum (Germany).

CEBAS-Aquarack: An artificial aquatic animal plant ecosystem as a tool for basic research in the Columbus Space Station p 210 N93-24401 Ecosystems on Earth and in space (the possible utilization of artificial ecosystems for space life support systems) p 236 N93-24406

Rutgers - The State Univ., New Brunswick, NJ.

Eye movements and visual information processing p 24 N93-10278 [AD-A250198] Eye movements and visual information processing [AD-A259955] p 225 N93-24297

S

Saint Louis Univ., MO.

Carbon monoxide exposure of subjects with documented cardiac arrhythmias p 337 N93-30890 I PB93-179943 I

SAM Technology, Inc., San Francisco, CA.

Mental workload assessment in the cockpit: Feasibility of using electrophysiological measurements, p 25 N93-10662 IAD-A2541381 Physiological indices of mental workload

IAD-A2616921 p 260 N93-26391

Sandia National Labs., Albuquerque, NM.

Application of RADTRAN to estimation of doses to persons in enclosed spaces p 97 N93-17230 DE93-0007581

Treatment of human-computer interface in a decision support system IDE93-0022811 p 237 N93-24502

A heat transfer analysis of a mobile vehicle radiation-shielded operator compartment p 264 N93-25318 IDE93-0074281

A robust model for finding optimal evolutionary trees IDE93-010682| p 330 N93-30483

Santa Clara Univ., CA.

The solar system: Importance of research to the viological sciences p 113 N93-18547
Schmitt (Harrison H.), Albuquerque, NM.

The real world and lunar base activation scenarios p 68 N93-14014

Science Applications International Corp., McLean, VA. Predicting radiation induced performance decrements of AH-1 helicopter crews. Volume 2: Evaluation of modeling and simulation techniques for predicting radiation induced performance decrements AD-A2628721 p 351 N93-29484

Sclavo Research Center, Rome (Italy).

Absence of protective immunity against diphtheria in a large proportion of young adults Sclavo S.p.A., Sienna (Italy).

Studies of safety, infectivity, and immunogenicity of a new Temperature Sensitive (TS) 51-1 strain of S. typhi as a new live oral typhoid fever vaccine candidate

p 19 N93-11306

Scripps Clinic and Research Foundation, La Jolla, CA. Molecular approach to hypothalamic rhythms p 335 N93-30421 IAD-A2644381

Search Technology, Inc., Norcross, GA.

Modeling the dynamics of mental workload and human performance in complex systems p 135 N93-19956 AD-A258553 |

Specification of adaptive aiding systems p 314 N93-27927 IAD-A263071

Service de Medecine Aeronautique, Versailles (France).

Lipodystrophies in the French military flight crew p 362 N93-32249 Sextant Avionique, Saint Medard en Jalles (France).

Otolithic illusions on takeoff and visual information: Reflections in connection with an air accident case p 134 N93-19681

Sextant Avionique, Valence (France).

Multimodal dialog system for future cockpits p 146 N93-19773

G-load effects and efficient acoustic parameters for p 146 N93-19775 robust speaker recognition p 146 N93 Simon Fraser Univ., Burnaby (British Columbia).

Modelling and simulation of human retinal vision p 335 N93-30269 processing Simula, Inc., Phoenix, AZ.

Improving manikin biofidelity p 142 N93-19668 Smith-Kettlewell Inst. of Visual Sciences, San

Francisco, CA. Visual processing of object velocity and acceleration [AD-A261048] p 265 N93-25778

Smiths Industries Ltd., Bishops Cleeve (England). Model-based reasoning applied to cockpit warning

p 147 N93-19778 Southwest Research Inst., San Antonio. TX.

Investigation of effects of 60-Hz electric and magnetic fields on operant and social behavior and on the neuroendocrine system of nonhuman primates, part 2 p 41 N93-13503

Investigation of effects of 60-Hz electric and magnetic fields on operant and social behavior and on the neuroendocrine system of nonhuman primates, part 1 p 41 N93-13520 IDE92-0401521

Investigation of effects of 60-Hz electric and magnetic fields on operant and social behavior and on the neuroendocrine system of nonhuman primates: Neuroendocrine portion of Experiment 4

DE92-040955 | p 95 N93-16166 Effects of 60-Hz electric and magnetic fields on operant and social behavior and on neuroendoctrine system of nonhuman primates

p 207 N93-22913 IDE93-0076771 Investigation of effects of 60-Hz electric and magnetic fields on operant and social behavior and on the neuroendocrine system of nonhuman primates

p 211 N93-24455 I DE93-0076781

Spanish Air Force, Talavera AFB.

An epidemiological study in SAF's pilots ejections p 143 N93-19699

Trial of emergency ration of the Spanish Air Force p 368 N93-32247

Objective improvements obtained by control of diet and physical training in Spanish Air Force fighter pilots p 369 N93-32258

Spectra Research Systems, Inc., Huntsville, AL.

ECLSS evolution: Advanced instrumentation interface requirements. Volume 3: Appendix C [NASA-CR-184367] p 64 N93-12990

Advanced life support study. Modification 10: ECLSS logistical support analysis for Space Station Freedom INASA-CR-1924811 p 266 N93-25888 SRI International Corp., Menlo Park, CA.

Interpretation as abduction

p 225 N93-24227 IAD-A259608 I

CORPORATE SOURCE		Wisconsin Univ.
ST Systems Corp., Lanham, MD.	Town their Arealin	Marine Marine Court Florida Tomas
Operator vision aids for space teleoperation assembly	Texas Univ., Austin. Design of a radiator shade for testing in a simulated	University of South Florida, Tampa. Digital mammography, cancer screening: Factors
and servicing p 33 N93-11981	lunar environment	important for image compression p 221 N93-24551
Stanford Univ., CA.	[NASA-CR-192080] p 108 N93-17710	Nutritional assessment of United States tactical air
Anaerobic microbial transformation of aromatic hydrocarbons and mixtures of aromatic hydrocarbons and	Design of a resistive exercise device for use on the	command pilots p 367 N93-32242 University of Western Illinois, Macomb:
halogenated solvents	Space Shuttle [NASA-CR-192079] p 108 N93-17805	Analysis of the lettuce data from the variable pressure
[AD-A255696] p 42 N93-14557	Conceptual design of a fleet of autonomous regolith	growth chamber at NASA Johnson Space Center: A
Spontaneous discovery and use of categorical	throwing devices for radiation shielding of lunar habitats	three-stage nested design model p 245 N93-26069
structure [AD-A261658] p 260 N93-26364	[NASA-CR-192078] p 108 N93-17806	Utah Univ., Salt Lake City.
Visualization techniques for analyzing control of human	Design of a vibration isolation system for a cycle	Sudden loading and fatigue effects on the human spine
movement: Affine mappings between multi-dimensional	ergometer to be used onboard the Space Shuttle [NASA-CR-192021] p 138 N93-17970	[PB93-167526] p 286 N93-29199
spaces p 353 N93-30204	Design of a reusable kinetic energy absorber for an	Utrecht State Univ. (Netherlands).
State Univ. of New York, Buffalo.	astronaut safety tether to be used during extravehicular	Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848
Effect of cytoskeletal reagents on stretch activated ion channels	activities on the Space Station	[RUU-CS-92-08] p 157 N93-20848
[AD-A261089] p 245 N93-25764	[NASA-CR-192015] p 139 N93-17973 Conceptual design of a fleet of autonomous regolith	V
State Univ. of New York, Stony Brook.	throwing devices for radiation shielding of lunar habitats	V
Training, muscle fatigue and stress fractures	[NASA-CR-192030] p 139 N93-18018	Vanderbilt Univ., Nashville, TN.
[AD-A255277] p 54 N93-15006	Preliminary design of a radiator shading device for a	Bone loss and human adaptation to lunar gravity
State Univ. of North Texas, Denton. Life support and self-sufficiency in space communities	lunar outpost	p 51 N93-14002
p 105 N93-16866	[NASA-CR-192016] p 139 N93-18019 Conceptual design of a thermal control system for an	EVA Glove Research Team
State Univ. of Western Connecticut, Danbury.	inflatable lunar habitat module	[NASA-CR-193014] p 313 N93-27847 A feasibility study of hand kinematics for EVA analysis
The challenge of biodetection for screening persons	[NASA-CR-192014] p 140 N93-18113	using magnetic resonance imaging p 313 N93-27848
carrying explosives p 159 N93-21931	SHARC: Space Habitat, Assembly and Repair Center	A preliminary structural analysis of space-based
Sverdrup Technology, Inc., Huntsville, AL.	[NASA-CR-192031] p 140 N93-18153 Texas Univ., Houston.	inflatable tubular frame structures p 313 N93-27849
Microbiological test results of the environmental control and life support systems vapors compression distillation	Analysis and synthesis of adaptive neural elements and	Power assist EVA glove development p 314 N93-27850
subsystem recycle tank components following various	assemblies	The AFOSR Workshop on the Future of EEG and
pretreatment protocols	[AD-A259954] p 219 N93-24247	MEG
[NASA-CR-192570] p 359 N93-32354	13 C NMR spectra of allosteric effectors of	[AD-A264338] p 335 N93-30160
Microbiological and corrosion analysis of three urine	hemoglobin [AD-A262979] p 284 N93-28293	Vector Research, Inc., Arlington, VA.
pretreatment regimes with titanium 6A1-4V [NASA-CR-192575] p 372 N93-32356	Texas Univ., San Antonio.	Requirements for an automated human factors, manpower, personnel, and training (HMPT) planning tool
Optimization of 15 parameters influencing the long-term	Proceedings of Workshop 1: The Human Brainmap	[AD-A258531] p 195 N93-21753
survival of bacteria in aquatic systems	Database	Versar, Inc., Springfield, VA.
[NASA-CR-192571] p 359 N93-32365	[AD-A260720] p 258 N93-25654 Analysis of visual loss from retinal lesions	Dermal exposure assessment: Principles and
	[AD-A264692] p 336 N93-30494	applications PB92-205665 p 12 N93-10438
Т	Texas Univ. Health Science Center, San Antonio.	Veterans Administration Hospital, San Francisco, CA.
•	Investigation of laser-induced retinal damage	Secondary injury factors and preventative treatment
Technical Research Centre of Finland, Espoo.	[AD-A264096] p 338 N93-31094 Tokyo Univ., Sagamihara (Japan).	[PB93-176014] p 283 N93-27409
Correlation of results of radiant heat test and convective	Japanese treefrog experiment onboard the Space	Virginia Univ., Charlottesville. Control and circadian behavior by transplanted
heat test for three layered protective clothing		Comion and circadian behavior by transplanted
	Station Mir p 210 N93-24402	suprachiasmatic nuclei
p 194 N93-21161	Trinity Univ., San Antonio, TX.	suprachiasmatic nuclei [AD-A264553] p 335 N93-30382
p 194 N93-21161 Biotechnical production and use of pyruvic acid with	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular	[AD-A264553] p 335 N93-30382 Photoreceptors regulating circadian behavior: A mouse
p 194 N93-21161	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys	[AD-A264553] p 335 N93-30382 Photoreceptors regulating circadian behavior: A mouse model
p 194 N93-21161 Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p 209 N93-23369 Technico Southwest, Inc., Los Alamos, NM.	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular	[AD-A264553] p 335 N93-30382 Photoreceptors regulating circadian behavior: A mouse
p 194 N93-21161 Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p 209 N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808] p 246 N93-26259 Trondheim Univ. (Norway). The USO-concept applied to a biological model	AD-A264553 p 335 N93-30382 Photoreceptors regulating circadian behavior: A mouse model AD-A264881 p 337 N93-30908
p 194 N93-21161 Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p 209 N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808] p 246 N93-26259 Trondheim Univ. (Norway). The USO-concept applied to a biological model experiment p 210 N93-24379	[AD-A264553] p 335 N93-30382 Photoreceptors regulating circadian behavior: A mouse model
p 194 N93-21161 Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p 209 N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808] p 246 N93-26259 Trondheim Univ. (Norway). The USO-concept applied to a biological model experiment p 210 N93-24379 Turin Univ. (Italy).	AD-A264553 p 335 N93-30382 Photoreceptors regulating circadian behavior: A mouse model AD-A264881 p 337 N93-30908
p 194 N93-21161 Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p 209 N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808]	AD-A264553 p 335 N93-30382 Photoreceptors regulating circadian behavior: A mouse model AD-A264881 p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely
p 194 N93-21161 Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p 209 N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 Technion - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808] p 246 N93-26259 Trondheim Univ. (Norway). The USO-concept applied to a biological model experiment p 210 N93-24379 Turin Univ. (Italy). Clinical types of Hepatitis B p 15 N93-11286 Tuskegee Inst., AL. Annual report	AD-A264553 p 335 N93-30382 Photoreceptors regulating circadian behavior: A mouse model AD-A264881 p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely moving animals
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p 194 N93-21161 Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p 209 N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 Technion - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p 311 N93-27177 Technische Univ., Berlin (Germany).	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808]	AD-A264553 p 335 N93-30382 Photoreceptors regulating circadian behavior: A mouse model AD-A264881 p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely moving animals AD-A264807 p 330 N93-30594 Walt Disney World Co., Lake Buena Vista, FL.
p 194 N93-21161 Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p 209 N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 Technion - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p 311 N93-27177	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808] p 246 N93-26259 Trondheim Univ. (Norway). The USO-concept applied to a biological model experiment p 210 N93-24379 Turin Univ. (Italy). Clinical types of Hepatitis B p 15 N93-11286 Tuskegee Inst., AL. Annual report	AD-A264553 p 335 N93-30382 Photoreceptors regulating circadian behavior: A mouse model AD-A264881 p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely moving animals AD-A264807 p 330 N93-30594
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p 194 N93-21161 Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p 209 N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 Technion - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p 311 N93-27177 Technische Univ., Berlin (Germany). DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field [ETN-93-93799] p 284 N93-28469	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808]	AD-A264553 p 335 N93-30382 Photoreceptors regulating circadian behavior: A mouse model AD-A264881 p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely moving animals AD-A264807 p 330 N93-30594 Walt Disney World Co., Lake Buena Vista, FL. Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Walter Reed Army Inst. of Research, Washington, DC. Walter Reed Army Institute of Research biannual
p 194 N93-21161 Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p 209 N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 Technion - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p 311 N93-27177 Technische Univ., Berlin (Germany). DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field [ETN-93-93799] p 284 N93-28469 Technische Univ., Graz (Austria).	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808] p 246 N93-26259 Trondheim Univ. (Norway). The USO-concept applied to a biological model experiment p 210 N93-24379 Turin Univ. (Italy). Clinical types of Hepatitis B Tuskegee Inst., AL. Annual report [NASA-CR-191389] p 105 N93-16840 U Umea Univ. (Sweden). Plasmid encoded virulence of Yersinia [FOA-B-40419-4.4] p 275 N93-28199	AD-A264553 p 335 N93-30382 Photoreceptors regulating circadian behavior: A mouse model AD-A264881 p 337 N93-30908
p 194 N93-21161 Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p 209 N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 Technion - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p 311 N93-27177 Technische Univ., Berlin (Germany). DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field [ETN-93-93799] p 284 N93-28469	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808] p 246 N93-26259 Trondheim Univ. (Norway). The USO-concept applied to a biological model experiment p 210 N93-24379 Turin Univ. (Italy). Clinical types of Hepatitis B Tuskegee Inst., AL. Annual report [NASA-CR-191389] p 105 N93-16840 U Umea Univ. (Sweden). Plasmid encoded virulence of Yersinia [FOA-B-40419-4.4] p 275 N93-28199 Umpqua Research Co., Myrtle Creek, OR.	AD-A264553 p 335 N93-30382 Photoreceptors regulating circadian behavior: A mouse model AD-A264881 p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely moving animals AD-A264807 p 330 N93-30594 Walt Disney World Co., Lake Buena Vista, FL. Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Walter Reed Army Inst. of Research, Washington, DC. Walter Reed Army Institute of Research biannual
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Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p209 N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] p59 N93-15216 Technion - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p311 N93-27177 Technische Univ., Berlin (Germany). DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field [ETN-93-93799] p284 N93-28469 Technische Univ., Graz (Austria). Monitoring of cardiovascular parameters during the AustroMir space flight p220 N93-24367 Technische Univ., Twente (Netherlands). Engineering the visibility of small features on electronic flight displays p144 N93-19758 Technische Univ., Vienna (Austria).	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808]	AD-A264553 p 335 N93-30382 Photoreceptors regulating circadian behavior: A mouse model AD-A264881 p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely moving animals AD-A264807 p 330 N93-30594 Walt Disney World Co., Lake Buena Vista, FL. Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Walter Reed Army Inst. of Research, Washington, DC. Walter Reed Army Institute of Research biannual report AD-A255630 p 52 N93-14162 Walter Reed Army Medical Center, AIDS/HIV in the US Military p 16 N93-11291 Use of novel adjuvants and delivery systems to improve the humoral and cellular immune response to malaria vaccine candidate antigens p 20 N93-11308
Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p. 209 p. N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] p. 59 p. N93-15216 Technion - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p. 311 p. N93-27177 Technische Univ., Berlin (Germany). DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field [ETN-93-93799] p. 284 p. N93-28469 Technische Univ., Graz (Austria). Monitoring of cardiovascular parameters during the AustroMir space flight p. 220 p. N93-24367 Technische Univ., Twente (Netherlands). Engineering the visibility of small features on electronic flight displays p. 144 p. N93-19758	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808] p 246 N93-26259 Trondheim Univ. (Norway). The USO-concept applied to a biological model experiment p 210 N93-24379 Turin Univ. (Italy). Clinical types of Hepatitis B p 15 N93-11286 Tuskegee Inst., AL. Annual report [NASA-CR-191389] p 105 N93-16840 U Umea Univ. (Sweden). Plasmid encoded virulence of Yersinia [FOA-B-40419-4.4] p 275 N93-28199 Umpqua Research Co., Myrtle Creek, OR. Regenerable biocide delivery unit, volume 1 [NASA-CR-185701-VOL-1] p 274 N93-27122 Regenerable biocide delivery unit, volume 2 [NASA-CR-185701-VOL-2] p 275 N93-27360 United Technologies Corp., Farmington, CT. SPE water electrolyzers in support of the lunar	AD-A264553 p 335 N93-30382 Photoreceptors regulating circadian behavior: A mouse model AD-A264881 p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely moving animals AD-A264807 p 330 N93-30594 Walt Disney World Co., Lake Buena Vista, FL. Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Walter Reed Army Institute of Research biannual report AD-A255630 p 52 N93-14162 Walter Reed Army Medical Center, Washington, DC. AIDS/HIV in the US Military p 16 N93-11291 Use of novel adjuvants and delivery systems to improve the humoral and cellular immune response to malaria
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Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p 209 N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 Technion - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p 311 N93-27177 Technische Univ., Berlin (Germany). DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field [ETN-93-93799] p 284 N93-28469 Technische Univ., Graz (Austria). Monitoring of cardiovascular parameters during the AustroMir space flight p 220 N93-24367 Technische Univ., Twente (Netherlands). Engineering the visibility of small features on electronic flight displays Technische Univ., Vienna (Austria). Optovert: An AustroMir-1991 experiment. Orientational effects from optokinetic stimulation p 226 N93-24366 Telefunken System Technik G.m.b.H., Wedel (Germany).	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808] p 246 N93-26259 Trondheim Univ. (Norway). The USO-concept applied to a biological model experiment p 210 N93-24379 Turin Univ. (Italy). Clinical types of Hepatitis B p 15 N93-11286 Tuskegee Inst., AL. Annual report [NASA-CR-191389] p 105 N93-16840 U Umea Univ. (Sweden). Plasmid encoded virulence of Yersinia [FOA-B-40419-4.4] p 275 N93-28199 Umpqua Research Co., Myrtle Creek, OR. Regenerable biocide delivery unit, volume 1 [NASA-CR-185701-VOL-1] p 274 N93-27122 Regenerable biocide delivery unit, volume 2 [NASA-CR-185701-VOL-2] p 275 N93-27360 United Technologies Corp., Farmington, CT. SPE water electrolyzers in support of the lunar outpost p 315 N93-27977 Universitaet der Bundeswehr Muenchen, Neubiberg (Germany).	Photoreceptors regulating circadian behavior: A mouse model [AD-A264881] p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely moving animals [AD-A264807] p 330 N93-30594 Walt Disney World Co., Lake Buena Vista, FL. Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Walter Reed Army Inst. of Research, Washington, DC. Walter Reed Army Institute of Research biannual report [AD-A255630] p 52 N93-14162 Walter Reed Army Medical Center, Washington, DC. AIDS/HIV in the US Military p 16 N93-11291 Use of novel adjuvants and delivery systems to improve the humoral and cellular immune response to malaria vaccine candidate antigens p 20 N93-11308 Washington Univ., Saint Louis, MO. Hydrothermal organic synthesis experiments [NSA-CR-191257] p 41 N93-13457 Human safety in the lunar environment
Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p 209 N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 Technion - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p 311 N93-27177 Technische Univ., Berlin (Germany). DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field [ETN-93-93799] p 284 N93-28469 Technische Univ., Graz (Austria). Monitoring of cardiovascular parameters during the AustroMir space flight p 220 N93-24367 Technische Univ., Twente (Netherlands). Engineering the visibility of small features on electronic flight displays p 144 N93-19758 Technische Univ., Vlenna (Austria). Optovert: An AustroMir-1991 experiment. Orientational effects from optokinetic stimulation p 226 N93-24366 Telefunken System Technik G.m.b.H., Wedel (Germany). Advanced cockpit-mission and image management	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808]	Photoreceptors regulating circadian behavior: A mouse model [AD-A264881] p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely moving animals [AD-A264807] p 330 N93-30594 Walt Disney World Co., Lake Buena Vista, FL. Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Walter Reed Army Inst. of Research, Washington, DC. Walter Reed Army Institute of Research biannual report [AD-A255630] p 52 N93-14162 Walter Reed Army Medical Center, AIDS/HIV in the US Military p 16 N93-11291 Use of novel adjuvants and delivery systems to improve the humoral and cellular immune response to malaria vaccine candidate antigens p 20 N93-11308 Washington Univ., Saint Louis, MO. Hydrothermal organic synthesis experiments [NASA-CR-191257] p 41 N93-13457 Human safety in the lunar environment p 105 N93-16867
Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p 209 N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 Technion - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p 311 N93-27177 Technische Univ., Berlin (Germany). DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field [ETN-93-93799] p 284 N93-28469 Technische Univ., Graz (Austria). Monitoring of cardiovascular parameters during the AustroMir space flight p 220 N93-24367 Technische Univ., Twente (Netherlands). Engineering the visibility of small features on electronic flight displays p 144 N93-19758 Technische Univ., Vlenna (Austria). Optovert: An AustroMir-1991 experiment. Orientational effects from optokinetic stimulation p 226 N93-24366 Telefunken System Technik G.m.b.H., Wedel (Germany). Advanced cockpit-mission and image management p 144 N93-19760	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808] p 246 N93-26259 Trondheim Univ. (Norway). The USO-concept applied to a biological model experiment p 210 N93-24379 Turin Univ. (Italy). Clinical types of Hepatitis B p 15 N93-11286 Tuskegee Inst., AL. Annual report [NASA-CR-191389] p 105 N93-16840 U Umea Univ. (Sweden). Plasmid encoded virulence of Yersinia [FOA-B-40419-4.4] p 275 N93-28199 Umpqua Research Co., Myrtle Creek, OR. Regenerable biocide delivery unit, volume 1 [NASA-CR-185701-VOL-1] p 274 N93-27122 Regenerable biocide delivery unit, volume 2 [NASA-CR-185701-VOL-2] p 275 N93-27360 United Technologies Corp., Farmington, CT. SPE water electrolyzers in support of the lunar outpost p 315 N93-27977 Universitaet der Bundeswehr Muenchen, Neubiberg (Germany).	Photoreceptors regulating circadian behavior: A mouse model [AD-A264881] p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely moving animals [AD-A264807] p 330 N93-30594 Walt Disney World Co., Lake Buena Vista, FL. Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Walter Reed Army Inst. of Research, Washington, DC. Walter Reed Army Institute of Research biannual report [AD-A255630] p 52 N93-14162 Walter Reed Army Medical Center, Washington, DC. AIDS/HIV in the US Military p 16 N93-11291 Use of novel adjuvants and delivery systems to improve the humoral and cellular immune response to malaria vaccine candidate antigens p 20 N93-11308 Washington Univ., Saint Louis, MO. Hydrothermal organic synthesis experiments [NASA-CR-191257] p 41 N93-13457 Human safety in the lunar environment p 105 N93-16867 Enhanced performance using physiological feedback
Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p 209 N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 Technion - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p 311 N93-27177 Technische Univ., Berlin (Germany). DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field [ETN-93-93799] p 284 N93-28469 Technische Univ., Graz (Austria). Monitoring of cardiovascular parameters during the AustroMir space flight p 220 N93-24367 Technische Univ., Twente (Netherlands). Engineering the visibility of small features on electronic flight displays p 144 N93-19758 Technische Univ., Vlenna (Austria). Optovert: An AustroMir-1991 experiment. Orientational effects from optokinetic stimulation p 226 N93-24366 Telefunken System Technik G.m.b.H., Wedel (Germany). Advanced cockpit-mission and image management	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808]	AD-A264553 p 335 N93-30382 Photoreceptors regulating circadian behavior: A mouse model AD-A264881 p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely moving animals AD-A264807 p 330 N93-30594 Walt Disney World Co., Lake Buena Vista, FL. Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Walter Reed Army Inst. of Research, Washington, DC. Walter Reed Army Institute of Research biannual report AD-A255630 p 52 N93-14162 Walter Reed Army Medical Center, Washington, DC. AIDS/HIV in the US Military p 16 N93-11291 Use of novel adjuvants and delivery systems to improve the humoral and cellular immune response to malaria vaccine candidate antigens p 20 N93-11308 Washington Univ., Saint Louis, MO. Hydrothermal organic synthesis experiments NASA-CR-191257 p 41 N93-13457 Human safety in the lunar environment p 105 N93-16867 Enhanced performance using physiological feedback AD-A258006 p 130 N93-17816
Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p 209 N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 Technion - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p 311 N93-27177 Technische Univ., Berlin (Germany). DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field [ETN-93-93799] p 284 N93-28469 Technische Univ., Graz (Austria). Monitoring of cardiovascular parameters during the AustroMir space flight p 220 N93-24367 Technische Univ., Twente (Netherlands). Engineering the visibility of small features on electronic flight displays p 144 N93-19758 Technische Univ., Vienna (Austria). Optovert: An AustroMir-1991 experiment. Orientational effects from optokinetic stimulation p 26 N93-24366 Telefunken System Technik G.m.b.H., Wedel (Germany). Advanced cockpit-mission and image management p 144 N93-19760	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808]	Photoreceptors regulating circadian behavior: A mouse model [AD-A264881] p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely moving animals [AD-A264807] p 330 N93-30594 Walt Disney World Co., Lake Buena Vista, FL. Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Walter Reed Army Inst. of Research, Washington, DC. Walter Reed Army Institute of Research biannual report [AD-A255630] p 52 N93-14162 Walter Reed Army Medical Center, Washington, DC. AIDS/HIV in the US Military p 16 N93-11291 Use of novel adjuvants and delivery systems to improve the humoral and cellular immune response to malaria vaccine candidate antigens p 20 N93-11308 Washington Univ., Saint Louis, MO. Hydrothermal organic synthesis experiments [NASA-CR-191257] p 41 N93-13457 Human safety in the lunar environment p 105 N93-16867 Enhanced performance using physiological feedback
Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p 209 N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 Technion - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p 311 N93-27177 Technische Univ., Berlin (Germany). DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field [ETN-93-93799] p 284 N93-28469 Technische Univ., Graz (Austria). Monitoring of cardiovascular parameters during the AustroMir space flight p 220 N93-24367 Technische Univ., Twente (Netherlands). Engineering the visibility of small features on electronic flight displays p 144 N93-19758 Technische Univ., Vienna (Austria). Optovert: An AustroMir-1991 experiment. Orientational effects from optokinetic stimulation p 226 N93-24366 Telefunken System Technik G.m.b.H., Wedel (Germany). Advanced cockpit-mission and image management p 144 N93-19760 Tennessee Univ., Knoxville. Biofilm ecology of bioluminescent bacteria [AD-A255282] p 42 N93-14532	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808]	Photoreceptors regulating circadian behavior: A mouse model [AD-A264881] p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely moving animals [AD-A264887] p 330 N93-30594 Walt Disney World Co., Lake Buena Vista, FL. Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Walter Reed Army Inst. of Research, Washington, DC. Walter Reed Army Institute of Research biannual report [AD-A255630] p 52 N93-14162 Walter Reed Army Medical Center, Washington, DC. AIDS/HiV in the US Military p 16 N93-11291 Use of novel adjuvants and delivery systems to improve the humoral and cellular immune response to malaria vaccine candidate antigens p 20 N93-11308 Washington Univ., Saint Louis, MO. Hydrothermal organic synthesis experiments [NASA-CR-191257] p 41 N93-13457 Human safety in the lunar environment p 105 N93-16867 Enhanced performance using physiological feedback [AD-A258006] p 130 N93-17816 Waterloo Univ. (Ontario). Respiratory response to varying degrees of tilt and lower body negative pressure
Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p 209 N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 Technion - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p 311 N93-27177 Technische Univ., Berlin (Germany). DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field [ETN-93-93799] p 284 N93-28469 Technische Univ., Graz (Austria). Monitoring of cardiovascular parameters during the AustroMir space flight p 220 N93-24367 Technische Univ., Twente (Netherlands). Engineering the visibility of small features on electronic flight displays p 144 N93-19758 Technische Univ., Vienna (Austria). Optovert: An AustroMir-1991 experiment. Orientational effects from optokinetic stimulation p 226 N93-24366 Telefunken System Technik G.m.b.H., Wedel (Germany). Advanced cockpit-mission and image management p 144 N93-19760 Tennessee Univ., Knoxville. Biofilm ecology of bioluminescent bacteria [AD-A255282] p 42 N93-14532	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808]	AD-A264553 p 335 N93-30382 Photoreceptors regulating circadian behavior: A mouse model AD-A264881 p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely moving animals AD-A264807 p 330 N93-30594 Walt Disney World Co., Lake Buena Vista, FL. Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Walter Reed Army Inst. of Research, Washington, DC. Walter Reed Army Institute of Research biannual report AD-A25630 p 52 N93-14162 Walter Reed Army Medical Center, Washington, DC. AIDS/HIV in the US Military p 16 N93-11291 Use of novel adjuvants and delivery systems to improve the humoral and cellular immune response to malaria vaccine candidate antigens p 20 N93-11308 Washington Univ., Saint Louis, MO. Hydrothermal organic synthesis experiments NASA-CR-191257 P 41 N93-13457 Human safety in the lunar environment p 105 N93-16867 Enhanced performance using physiological feedbase (AD-A258006 p 130 N93-17816 Waterloo Univ. (Ontario). Respiratory response to varying degrees of tilt and lower body negative pressure p 173 N93-21114 Wien Univ. (Austria).
Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p. 209 p. N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] p. 59 p. N93-15216 Technion - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p. 311 p. N93-27177 Technische Univ., Berlin (Germany). DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field [ETN-93-93799] p. 284 p. N93-28469 Technische Univ., Graz (Austria). Monitoring of cardiovascular parameters during the AustroMir space flight p. 220 p. N93-24367 Technische Univ., Twente (Netherlands). Engineering the visibility of small features on electronic flight displays Technische Univ., Vienna (Austria). Optovert: An AustroMir-1991 experiment. Orientational effects from optokinetic stimulation p. 226 p. N93-24366 Telefunken System Technik G.m.b.H., Wedel (Germany). Advanced cockpit-mission and image management p. 144 p. N93-19760 Tennessee Univ., Knoxville. Biofilm ecology of bioluminescent bacteria [AD-A255282] p. 42 p. N93-14532 Texas A&M Univ., College Station. A linear, time-varying simulation of the respiratory tract system	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808]	Photoreceptors regulating circadian behavior: A mouse model [AD-A264881] p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely moving animals [AD-A264807] p 330 N93-30594 Walt Disney World Co., Lake Buena Vista, FL. Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Walter Reed Army Inst. of Research, Washington, DC. Walter Reed Army Institute of Research biannual report [AD-A255630] p 52 N93-14162 Walter Reed Army Medical Center, Washington, DC. AIDS/HIV in the US Military p 16 N93-11291 Use of novel adjuvants and delivery systems to improve the humoral and cellular immune response to malaria vaccine candidate antigens p 20 N93-11308 Washington Univ., Saint Louis, MO. Hydrothermal organic synthesis experiments [NASA-CR-191257] p 41 N93-13457 Human safety in the lunar environment p 105 N93-16867 Enhanced performance using physiological feedback [AD-A258006] p 130 N93-17816 Waterloo Univ. (Ontario). Respiratory response to varying degrees of tilt and lower body negative pressure p 173 N93-21114 Wien Univ. (Austria). Development and implementation of the MotoMir
Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p 209 N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 Technion - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p 311 N93-27177 Technische Univ., Berlin (Germany). DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field [ETN-93-93799] p 284 N93-28469 Technische Univ., Graz (Austria). Monitoring of cardiovascular parameters during the AustroMir space flight p 220 N93-24367 Technische Univ., Twente (Netherlands). Engineering the visibility of small features on electronic flight displays p 144 N93-19758 Technische Univ., Vienna (Austria). Optovert: An AustroMir-1991 experiment. Orientational effects from optokinetic stimulation p 226 N93-24366 Telefunken System Technik G.m.b.H., Wedel (Germany). Advanced cockpit-mission and image management p 144 N93-19760 Tennessee Univ., Knoxville. Biofilm ecology of bioluminescent bacteria [AD-A255282] p 42 N93-14532	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808]	Photoreceptors regulating circadian behavior: A mouse model [AD-A264881] p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely moving animals [AD-A264887] p 330 N93-30594 Walt Disney World Co., Lake Buena Vista, FL. Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Walter Reed Army Inst. of Research, Washington, DC. Walter Reed Army Institute of Research biannual report [AD-A25600] p 52 N93-14162 Walter Reed Army Medical Center, Washington, DC. AIDS/HIV in the US Military p 16 N93-11291 Use of novel adjuvants and delivery systems to improve the humoral and cellular immune response to malaria vaccine candidate antigens p 20 N93-11308 Washington Univ., Saint Louis, MO. Hydrothermal organic synthesis experiments [NASA-CR-191257] p 41 N93-13457 Human safety in the lunar environment p 105 N93-16867 Enhanced performance using physiological feedback [AD-A258006] p 130 N93-17816 Waterloo Univ. (Ontario). Respiratory response to varying degrees of tilt and lower body negative pressure p 173 N93-21114 Wien Univ. (Austria). Development and implementation of the MotoMir experiment on the Mir Space Station
Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] Technion - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p 311 N93-27177 Technische Univ., Berlin (Germany). DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field [ETN-93-93799] Technische Univ., Graz (Austria). Monitoring of cardiovascular parameters during the AustroMir space flight p 220 N93-24367 Technische Univ., Twente (Netherlands). Engineering the visibility of small features on electronic flight displays Technische Univ., Vienna (Austria). Optovert: An AustroMir-1991 experiment. Orientational effects from optokinetic stimulation p 226 N93-24366 Telefunken System Technik G.m.b.H., Wedel (Germany). Advanced cockpit-mission and image management p 144 N93-19760 Tennessee Univ., Knoxville. Biofilm ecology of bioluminescent bacteria [AD-A255282] p 42 N93-14532 Texas A&M Univ., College Station. A linear, time-varying simulation of the respiratory tract system [DE93-004515] Alternative processes for water reclamation and solid waste processing in a physical/chemical bioregenerative	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808]	Photoreceptors regulating circadian behavior: A mouse model [AD-A264881] p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely moving animals [AD-A264807] p 330 N93-30594 Walt Disney World Co., Lake Buena Vista, FL. Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Walter Reed Army Inst. of Research, Washington, DC. Walter Reed Army Institute of Research biannual report [AD-A255630] p 52 N93-14162 Walter Reed Army Medical Center, Washington, DC. AIDS/HIV in the US Military p 16 N93-11291 Use of novel adjuvants and delivery systems to improve the humoral and cellular immune response to malaria vaccine candidate antigens p 20 N93-11308 Washington Univ., Saint Louis, MO. Hydrothermal organic synthesis experiments [NASA-CR-191257] p 41 N93-13457 Human safety in the lunar environment p 105 N93-16867 Enhanced performance using physiological feedback [AD-A258006] p 130 N93-17816 Waterloo Univ. (Ontario). Respiratory response to varying degrees of tilt and lower body negative pressure p 173 N93-21114 Wien Univ. (Austria). Development and implementation of the MotoMir
Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] Technion - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p 311 N93-27177 Technische Univ., Berlin (Germany). DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field [ETN-93-93799] Technische Univ., Graz (Austria). Monitoring of cardiovascular parameters during the AustroMir space flight p 220 N93-24367 Technische Univ., Twente (Netherlands). Engineering the visibility of small features on electronic flight displays p 144 N93-19758 Technische Univ., Vlenna (Austria). Optovert: An AustroMir-1991 experiment. Orientational effects from optokinetic stimulation p 226 N93-24366 Telefunken System Technik G.m.b.H., Wedel (Germany). Advanced cockpit-mission and image management p 144 N93-19760 Tennessee Univ., Knoxville. Biofilm ecology of bioluminescent bacteria [AD-A255282] p 42 N93-14532 Texas A&M Univ., College Station. A linear, time-varying simulation of the respiratory tract system [DE93-004515] p 218 N93-24009 Alternative processes for water reclamation and solid waste processing in a physical/chemical bioregenerative life support system p 311 N93-27721	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808]	Photoreceptors regulating circadian behavior: A mouse model [AD-A264881] p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely moving animals [AD-A264807] p 330 N93-30594 Walt Disney World Co., Lake Buena Vista, FL. Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Walter Reed Army Inst. of Research, Washington, DC. Walter Reed Army Institute of Research biannual report [AD-A25603] p 52 N93-14162 Walter Reed Army Medical Center, Washington, DC. AIDS/HIV in the US Military p 16 N93-11291 Use of novel adjuvants and delivery systems to improve the humoral and cellular immune response to malaria vaccine candidate antigens p 20 N93-11308 Washington Univ., Saint Louis, MO. Hydrothermal organic synthesis experiments [NASA-CR-191257] p 41 N93-13457 Human safety in the lunar environment p 105 N93-16867 Enhanced performance using physiological feedback [AD-A258006] p 130 N93-17816 Waterloo Univ. (Ontario). Respiratory response to varying degrees of tilt and lower body negative pressure p 173 N93-21114 Wien Univ. (Austria). Development and implementation of the MotoMir experiment on the Mir Space Station p 220 N93-24363
Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p 209 N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 Technion - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p 311 N93-27177 Technische Univ., Berlin (Germany). DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field [ETN-93-93799] p 284 N93-28469 Technische Univ., Graz (Austria). Monitoring of cardiovascular parameters during the AustroMir space flight p 220 N93-24367 Technische Univ., Twente (Netherlands). Engineering the visibility of small features on electronic flight displays p 144 N93-19758 Technische Univ., Vlenna (Austria). Optovert: An AustroMir-1991 experiment. Orientational effects from optokinetic stimulation p 226 N93-24366 Telefunken System Technik G.m.b.H., Wedel (Germany). Advanced cockpit-mission and image management p 144 N93-19760 Tennessee Univ., Knoxville. Biofilm ecology of bioluminescent bacteria [AD-A255282] p 42 N93-14532 Texas A&M Univ., College Station. A linear, time-varying simulation of the respiratory tract system [DE93-004515] p 218 N93-24009 Alternative processes for water reclamation and solid waste processing in a physical/chemical bioregenerative life support system p 311 N93-27721 Growing wheat to maturity in reduced gas pressures	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808]	Photoreceptors regulating circadian behavior: A mouse model [AD-A264881] p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely moving animals [AD-A264807] p 330 N93-30594 Walt Disney World Co., Lake Buena Vista, FL. Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Walter Reed Army Inst. of Research, Washington, DC. Walter Reed Army Institute of Research biannual report [AD-A255630] p 52 N93-14162 Walter Reed Army Medical Center, Washington, DC. AIDS/HIV in the US Military p 16 N93-11291 Use of novel adjuvants and delivery systems to improve the humoral and cellular immune response to malaria vaccine candidate antigens p 20 N93-11308 Washington Univ., Saint Louis, MO. Hydrothermal organic synthesis experiments [NASA-CR-191257] p 41 N93-13457 Human safety in the lunar environment p 105 N93-16867 Enhanced performance using physiological feedback [AD-A258006] p 130 N93-17816 Waterloo Univ. (Ontario). Respiratory response to varying degrees of tilt and lower body negative pressure p 173 N93-21114 Wien Univ. (Austria). Development and implementation of the MotoMir experiment on the Mir Space Station p 220 N93-24363 Wisconsin Univ., Madison. Potential of derived lunar volatiles for life support p 67 N93-13998
Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p 209 N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 Technion - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p 311 N93-27177 Technische Univ., Berlin (Germany). DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field [ETN-93-93799] p 284 N93-28469 Technische Univ., Graz (Austria). Monitoring of cardiovascular parameters during the AustroMir space flight p 220 N93-24367 Technische Univ., Twente (Netherlands). Engineering the visibility of small features on electronic flight displays Technische Univ., Vienna (Austria). Optovert: An AustroMir-1991 experiment. Orientational effects from optokinetic stimulation p 226 N93-24366 Telefunken System Technik G.m.b.H., Wedel (Germany). Advanced cockpit-mission and image management p 144 N93-19760 Tennessee Univ., Knoxville. Biofilm ecology of bioluminescent bacteria (AD-A255282) p 42 N93-14532 Texas A&M Univ., College Station. A linear, time-varying simulation of the respiratory tract system (DE93-004515) p 218 N93-24009 Alternative processes for water reclamation and solid waste processing in a physical/chemical bioregenerative life support system p 311 N93-27721 Growing wheat to maturity in reduced gas pressures [NASA-CR-193245] p 277 N93-29216	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808] p 246 N93-26259 Trondheim Univ. (Norway). The USO-concept applied to a biological model experiment p 210 N93-24379 Turin Univ. (Italy). Clinical types of Hepatitis B p 15 N93-11286 Tuskegee Inst., AL. Annual report [NASA-CR-191389] p 105 N93-16840 U Umea Univ. (Sweden). Plasmid encoded virulence of Yersinia [FOA-B-40419-4.4] p 275 N93-28199 Umpqua Research Co., Myrtle Creek, OR. Regenerable biocide delivery unit, volume 1 [NASA-CR-185701-VOL-1] p 274 N93-27122 Regenerable biocide delivery unit, volume 2 [NASA-CR-185701-VOL-2] p 275 N93-27360 United Technologies Corp., Farmington, CT. SPE water electrolyzers in support of the lunar outpost Universitaet der Bundeswehr Muenchen, Neubiberg (Germany). Monitoring of pilot actions as part of a knowledge-based system for pilot assistance p 59 N93-15184 Pilot intent and error recognition as part of a knowledge based cockpit assistant p 318 N93-28855 University City Science Center, Philadelphia, PA. Investigation of wheat coleoptile response to phototropic stimulations [NASA-CR-192219] p 114 N93-18608 A proposal to determine properties of the gravitropic response of plants in the absence of a complicating g-force (GTHRES) [NASA-CR-192219] p 114 N93-19379 University of Central Florida, Ortando. Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399	Photoreceptors regulating circadian behavior: A mouse model [AD-A264881] p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely moving animals [AD-A264807] p 330 N93-30594 Walt Disney World Co., Lake Buena Vista, FL. Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Walter Reed Army Inst. of Research, Washington, DC. Walter Reed Army Institute of Research biannual report [AD-A255630] p 52 N93-14162 Walter Reed Army Medical Center, Washington, DC. AIDS/HIV in the US Military p 16 N93-11291 Use of novel adjuvants and delivery systems to improve the humoral and cellular immune response to malaria vaccine candidate antigens p 20 N93-11308 Washington Univ., Saint Louis, MO. Hydrothermal organic synthesis experiments [NASA-CR-191257] p 41 N93-13457 Human safety in the lunar environment p 105 N93-16867 Enhanced performance using physiological feedback (AD-A258006) p 130 N93-17816 Waterloo Univ. (Ontario). Respiratory response to varying degrees of tilt and lower body negative pressure p 173 N93-21114 Wien Univ. (Austria). Development and implementation of the MotoMir experiment on the Mir Space Station p 20 N93-24363 Wisconsin Univ., Madison. Potential of derived lunar volatiles for life support p 67 N93-13998 X Ray System, Lightweight Medical (XRSLM)
Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p. 209 p. N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] p. 59 p. N93-15216 Technion - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p. 311 p. N93-27177 Technische Univ., Berlin (Germany). DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field [ETN-93-93799] p. 284 p. N93-28469 Technische Univ., Graz (Austria). Monitoring of cardiovascular parameters during the AustroMir space flight p. 220 p. N93-24367 Technische Univ., Twente (Netherlands). Engineering the visibility of small features on electronic flight displays Technische Univ., Vlenna (Austria). Optovert: An AustroMir-1991 experiment. Orientational effects from optokinetic stimulation p. 226 p. N93-24366 Telefunken System Technik G.m.b.H., Wedel (Germany). Advanced cockpit-mission and image management p. 144 p. N93-19760 Tennessee Univ., Knoxville. Biofilm ecology of bioluminescent bacteria [AD-A255282] p. 42 p. N93-14532 Texas A&M Univ., College Station. A linear, time-varying simulation of the respiratory tract system [DE93-004515] p. 218 p. N93-24009 Alternative processes for water reclamation and solid waste processing in a physical/chemical bioregenerative life support system p. 277 p. N93-29216 Melatonin, the pineal gland, and circadian rhythms	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808]	Photoreceptors regulating circadian behavior: A mouse model [AD-A264881] p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely moving animals [AD-A264807] p 330 N93-30594 Walt Disney World Co., Lake Buena Vista, FL. Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Walter Reed Army Inst. of Research, Washington, DC. Walter Reed Army Institute of Research biannual report [AD-A255630] p 52 N93-14162 Walter Reed Army Medical Center, Washington, DC. AIDS/HIV in the US Military p 16 N93-11291 Use of novel adjuvants and delivery systems to improve the humoral and cellular immune response to malaria vaccine candidate antigens p 20 N93-11308 Washington Univ., Saint Louis, MO. Hydrothermal organic synthesis experiments [NASA-CR-191257] p 41 N93-13457 Human safety in the lunar environment p 105 N93-16867 Enhanced performance using physiological feedback [AD-A258006] p 130 N93-17816 Waterloo Univ. (Ontario). Respiratory response to varying degrees of tilt and lower body negative pressure p 173 N93-21114 Wien Univ. (Austria). Development and implementation of the MotoMir experiment on the Mir Space Station p 220 N93-24363 Wisconsin Univ., Madison. Potential of derived lunar volatiles for life support p 67 N93-13998 X Ray System, Lightweight Medical (XRSLM) p 123 N93-1895
Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p. 209 p. N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] p. 59 p. N93-15216 Technion - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p. 311 p. N93-27177 Technische Univ., Berlin (Germany). DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field [ETN-93-93799] p. 284 p. N93-28469 Technische Univ., Graz (Austria). Monitoring of cardiovascular parameters during the AustroMir space flight p. 220 p. N93-24367 Technische Univ., Twente (Netherlands). Engineering the visibility of small features on electronic flight displays Technische Univ., Vlenna (Austria). Optovert: An AustroMir-1991 experiment. Orientational effects from optokinetic stimulation p. 226 p. N93-24366 Telefunken System Technik G.m.b.H., Wedel (Germany). Advanced cockpit-mission and image management p. 144 p. N93-19760 Tennessee Univ., Knoxville. Biofilm ecology of bioluminescent bacteria [AD-A255282] p. 42 p. N93-14532 Texas A&M Univ., College Station. A linear, time-varying simulation of the respiratory tract system [DE93-004515] p. 218 p. N93-24009 Alternative processes for water reclamation and solid waste processing in a physical/chemical bioregenerative life support system p. 277 p. N93-29216 Melatonin, the pineal gland, and circadian rhythms	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808] p 246 N93-26259 Trondheim Univ. (Norway). The USO-concept applied to a biological model experiment p 210 N93-24379 Turin Univ. (Italy). Clinical types of Hepatitis B p 15 N93-11286 Tuskegee Inst., AL. Annual report [NASA-CR-191389] p 105 N93-16840 U Umea Univ. (Sweden). Plasmid encoded virulence of Yersinia [FOA-B-40419-4.4] p 275 N93-28199 Umpqua Research Co., Myrtle Creek, OR. Regenerable biocide delivery unit, volume 1 [NASA-CR-185701-VOL-1] p 274 N93-27122 Regenerable biocide delivery unit, volume 2 [NASA-CR-185701-VOL-2] p 275 N93-27360 United Technologies Corp., Farmington, CT. SPE water electrolyzers in support of the lunar outpost Universitaet der Bundeswehr Muenchen, Neubiberg (Germany). Monitoring of pilot actions as part of a knowledge-based system for pilot assistance p 59 N93-15184 Pilot intent and error recognition as part of a knowledge based cockpit assistant p 318 N93-28855 University City Science Center, Philadelphia, PA. Investigation of wheat coleoptile response to phototropic stimulations [NASA-CR-192219] p 114 N93-18608 A proposal to determine properties of the gravitropic response of plants in the absence of a complicating g-force (GTHRES) [NASA-CR-192219] p 114 N93-19379 University of Central Florida, Ortando. Chemical characterization of some aqueous leachates from crop residues in 'CELSS' p 115 N93-19399	Photoreceptors regulating circadian behavior: A mouse model [AD-A264881] p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely moving animals [AD-A264807] p 330 N93-30594 Walt Disney World Co., Lake Buena Vista, FL. Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Walter Reed Army Inst. of Research, Washington, DC. Walter Reed Army Institute of Research biannual report [AD-A255630] p 52 N93-14162 Walter Reed Army Medical Center, Washington, DC. AIDS/HIV in the US Military p 16 N93-11291 Use of novel adjuvants and delivery systems to improve the humoral and cellular immune response to malaria vaccine candidate antigens p 20 N93-11308 Washington Univ., Saint Louis, MO. Hydrothermal organic synthesis experiments [NASA-CR-191257] p 41 N93-13457 Human safety in the lunar environment p 105 N93-16867 Enhanced performance using physiological feedback (AD-A258006) p 130 N93-17816 Waterloo Univ. (Ontario). Respiratory response to varying degrees of tilt and lower body negative pressure p 173 N93-21114 Wien Univ. (Austria). Development and implementation of the MotoMir experiment on the Mir Space Station p 20 N93-24363 Wisconsin Univ., Madison. Potential of derived lunar volatiles for life support p 67 N93-13998 X Ray System, Lightweight Medical (XRSLM)
Biotechnical production and use of pyruvic acid with special reference to coenzyme regeneration [VTT-PUBS-77] p 209 N93-23369 Technico Southwest, Inc., Los Alamos, NM. The effect of pain on task performance: A review of the literature [AD-A254336] p 59 N93-15216 Technico - Israel Inst. of Tech., Haifa. Visual field information in nap-of-the-Earth flight by teleoperated helmet-mounted displays p 311 N93-27177 Technische Univ., Berlin (Germany). DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field [ETN-93-93799] p 284 N93-28469 Technische Univ., Graz (Austria). Monitoring of cardiovascular parameters during the AustroMir space flight p 220 N93-24367 Technische Univ., Twente (Netherlands). Engineering the visibility of small features on electronic flight displays p 144 N93-19758 Technische Univ., Vlenna (Austria). Optovert: An AustroMir-1991 experiment. Orientational effects from optokinetic stimulation p 226 N93-24366 Telefunken System Technik G.m.b.H., Wedel (Germany). Advanced cockpit-mission and image management p 144 N93-19760 Tennessee Univ., Knoxville. Biofilm ecology of bioluminescent bacteria [AD-A255282] p 42 N93-14532 Texas A&M Univ., College Station. A linear, time-varying simulation of the respiratory tract system [DE93-004515] p 218 N93-24009 Alternative processes for water reclamation and solid waste processing in a physical/chemical bioregenerative life support system p 311 N93-27721 Growing wheat to maturity in reduced gas pressures [NASA-CR-193245] p 277 N93-29216 Melatonin, the pineal gland, and circadian rhythms [AD-A264099] p 337 N93-31061	Trinity Univ., San Antonio, TX. Effects of space radiation on humoral and cellular immunity in rhesus monkeys [AD-A261808]	Photoreceptors regulating circadian behavior: A mouse model [AD-A264881] p 337 N93-30908 W Wake Forest Univ., Winston-Salem, NC. Multiple neuron recording in the hippocampus of freely moving animals [AD-A264887] p 330 N93-30594 Walt Disney World Co., Lake Buena Vista, FL. Lunar base CELSS: A bioregenerative approach p 67 N93-13993 Walter Reed Army Inst. of Research, Washington, DC. Walter Reed Army Institute of Research biannual report [AD-A255630] p 52 N93-14162 Walter Reed Army Medical Center, Washington, DC. AIDS/HIV in the US Military p 16 N93-11291 Use of novel adjuvants and delivery systems to improve the humoral and cellular immune response to malaria vaccine candidate antigens p 20 N93-11308 Washington Univ., Saint Louis, MO. Hydrothermal organic synthesis experiments [NASA-CR-191257] p 41 N93-13457 Human safety in the lunar environment p 105 N93-16867 Enhanced performance using physiological feedback [AD-A258006] p 130 N93-17816 Waterloo Univ. (Ontario). Respiratory response to varying degrees of tilt and lower body negative pressure p 173 N93-21114 Wien Univ. (Austria). Development and implementation of the MotoMir experiment on the Mir Space Station p 220 N93-24363 Wisconsin Univ., Madison. Potential of derived lunar volatiles for life support p 67 N93-13998 X Ray System, Lightweight Medical (XRSLM) [AD-A258159] p 123 N93-18295

Woods Hole Oceanographic Inst.

Planetary Biology and Microbial Ecology: Molecular Ecology and the Global Nitrogen cycle INASA-CR-4497 p 269 N93-26157 GENESIS 2: Advanced lunar outpost

Woods Hole Oceanographic Inst., MA.

Marine microbial production Marine microbial production of dimethylsulfide from dissolved dimethylsulfoniopropionate

[NASA-CR-193278] p 330 N93-30665 World Health Organization, Geneva (Switzerland). HIV infection in the nineties p 15 N93

p 15 N93-11290 Communicable diseases: A major burden of morbidity and mortality p 18 N93-11300 Future approaches to vaccine development single-dose vaccines using controlled-release delivery systems

p 20 N93-11310
Wright Lab., Wright-Patterson AFB, OH.
The human-electronic crew: Is the team maturing? The 2nd Joint GAF/RAF/USAF Human-Electronic Crew Teamwork Workshop

AD-A2561921 p 69 N93-14520 System automation and pilot-vehicle-interface for unconstrained low-altitude night attack

p 320 N93-28867

Wright Research Development Center, Wright-Patterson AFB, OH.

Panoramic cockpit displays ρ 145 N93-19765

Wright State Univ., Dayton, OH.
Perception/action: An holistic approach

[AD-A259597] p 235 N93-24067

Wyle Labs., Inc., Huntsville, AL.
Increased fire and toxic contaminant detection responsibility by use of distributed, aspirating sensors
p 311 N93-27722

Wyoming Univ., Laramie.

A vision system planner for increasing the autonomy of the Extravehicular Activity Helper/Retriever [NASA-CR-193301] p 365 N93-31844

Yale Univ., New Haven, CT.

Representations of shape in object recognition and long-term visual memory p 341 N93-30163 IAD-A2643421

York Univ. (Ontario).

Aimed arm movements under changed gravity p 193 N93-21113

Sensory sensitivities and discriminations and their roles in aviation

[AD-A259742] p 224 N93-23479

Z

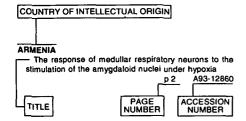
Zurich Univ. (Switzerland). Hepatitis A and Hepatitis B: Risks compared to other vaccine preventable diseases and immunization recommendations p 15 N93-11288 recommendations p 15 N93-11288
Recent lessons on the safety and effectiveness of malaria chemoprophylaxis in a non-immune population p 19 N93-11307

FOREIGN TECHNOLOGY INDEX

AEROSPACE MEDICINE AND BIOLOGY / A Continuing Bibliography 1993 Cumulative Index

January 1994

Typical Foreign Technology Index Listing



Listings in this index are arranged alphabetically by country of intellectual origin. The title of the document is used to provide a brief description of the subject matter. The page number and accession number are included in each entry to assist the user in locating the abstract in the abstract section. If applicable, a report number is also included as an aid in identifying the document.

ARMENIA

The response of medullar respiratory neurons to the stimulation of the amygdaloid nuclei under hypoxia p 2 A93-12860

The effect of cortical vestibular area stimulation on the activity of the neurons of lateral vestibular nuclei during vibration p 2 A93-12863

AUSTRALIA

Cometary supply of terrestrial organics - Lessons from the K/T and the present epoch p 109 A93-17981 Increased normoxic ventilation induced by repetitive

hypoxia in conscious dogs p 79 A93-20037 Preservation of biological information in thermal spring

deposits - Developing a strategy for the search for fossil p 197 A93-28377 life on Mars

Membrane technology: A search for membranes for submarine atmosphere control

IAD-A260581) p 266 N93-25904 The Thirteenth AINSE Radiation Biology Conference: Conference handbook

{DE93-609131 | p 338 N93-31225

AUSTRIA

COGIMIR - A study of cognitive functions in p 174 A93-26569 microgravity AUDIMIR - Directional hearing at microgravity

p 159 A93-26570 OPTOVERT: An AUSTROMIR 91 experiment -

Orientational effects from optokinetic stimulation p 159 A93-26571 Influence of microgravity on immune system and genetic p 160 A93-26572

Effect of head-down bedrest on blood/plasma density p 163 A93-28687 after intravenous fluid load

Nucleotide-protectable labeling of sulfhydryl groups in the ATPase subunit I of from Halobacterium saccharovorum p 201 A93-32116

Comparison of membrane ATPases from extreme halophiles isolated from ancient salt deposits

p 243 A93-36557 Evaporation cycle experiments A simulation of salt-induced peptide synthesis under possible prebiotic p 354 A93-43792 conditions

Space and cognition - The measurement of behavioral functions during a 6-day space mission

p 405 A93-55164 Group II intron RNA catalysis of progressive nucleotide p 398 A93-55292 insertion - A model for RNA editing Format and structure of a database on health and

environmental impacts of different energy systems for electricity generation IDE92-6341601 n 12 N93-10222

Eve-head-arm coordination and spinal reflexes in p 236 N93-24362 Development and implementation of the MotoMir

experiment on the Mir Space Station

p 220 N93-24363 Optovert: An AustroMir-1991 experiment, Orientational effects from optokinetic stimulation p 226 N93-24366 Monitoring of cardiovascular parameters during the p 220 N93-24367 AustroMir space flight

Influence of microgravity on immune system and genetic p 220 N93-24370 information

В

BELGIUM

Mechanisms of improved arterial oxygenation after peripheral chemoreceptor stimulation during hypoxic exercise p 331 A93-42188 Allergy screening and follow-up in student pilots of the

Belgian Air Force (BAF) p 21 N93-11316 Cognitive factors in the air events of the Air Force during the last decade p 134 N93-19682

The use of voice processing for some aspects of the p 146 N93-19772 ilot-vehicle-interface in an aircraft BRAZIL

Chiral-symmetry-breaking in nonequilibrium chemical systems - The racemization influence

p 269 A93-36563

Utilization of high energy electron beam in the treatment of drinking and waste water |DE92-642335| p 372 N93-32406

BULGARIA

Sleep as a restorative process under extreme conditions p 89 A93-18291 Electromyographic investigations of tremor in aquanauts

in simulated immersions p 90 A93-18292 Moistening of the substrate in microgravity

p 135 A93-21906 Dynamics of the controlled environment conditions in

'SVÉT' greenhouse in flight p 152 A93-27460 Some proteins keep 'living fossil' pre-sequence

p 244 A93-36562 The first 'space' vegetables have been grown in the 'SVET' greenhouse using controlled environmental conditions p 394 A93-52410

BYELARUS

The role of serotonin and histamine in increasing the resistance of the organism to certain extreme conditions p 324 A93-43034

C

CANADA

Subjective and behavioral effects associated with repeated exposure to narcosis p 7 A93-10327 A second postcooling afterdrop - More evidence for a p 44 A93-14969 convective mechanism The effects of hypoxia on auditory reaction time and P300 latency p 47 A93-16156 Accuracy of aimed arm movements in changed gravity p 56 A93-16159

Cerebral blood flow velocities by transcranial Doppler p 84 A93-17533 during parabolic flight Alterations of proprioceptive function in the weightless p 86 A93-17549

Decrement in manual arm performance during whole body cooling p 88 A93-18038 The Canadian forces airsickness rehabilitation program,

p 89 A93-18042 1981-1991 Collision avoidance of a multiple degree of redundancy manipulator operating through a window

p 136 A93-23846 Simulator sickness experience in simulators equipped

with fiber optic helmet mounted display systems p 136 A93-24490 IAIAA PAPER 92-41351

The effects of variations in the anti-G straining maneuver on blood pressure at +Gz acceleration

p 118 A93-25204 human physiology Study design for microgravity o 118 A93-25208 experiments

Using tactile information in telerobotics p 138 A93-25482

The Space Station Remote Manipulator System p 138 A93-25487

A telerobotic virtual control system

p 183 A93-27030 Management of trauma and emergency surgery in pace p 167 A93-28734 space Aseptic technique in microgravity p 168 A93-28737

Histochemical and contractile responses of rat medial gastrocnemius to 2 weeks of complete disuse p 157 A93-28752

Cancer risk assessment with intermittent exposure

p 171 A93-28766 Ground operation of the mobile servicing system on p 190 A93-29107 Space Station Freedom

Teleprogramming a cooperative space robotic workcell for Space Station p 190 A93-29109 Knowledge-based task planning for the Special Purpose Dextrous Manipulator p 191 A93-29110

Effect of task complexity on mental performance during p 211 A93-30279 immersion hypothermia Cardiovascular responses during recovery from exercise

p 212 and thermal stress Robotics evaluation and characterization (REACH) of the SSRMS concept and technical issues [AIAA PAPER 93-1156] p 230

On the control of a class of flexible manipulators using feedback linearization approach p 231 A93-31533 Comparison of spinal health indicators in predicting spinal status in a 1-year longitudinal study

p 216 Shape discrimination and the judgement of perfect symmetry - Dissociation of shape from size

p 224 Ground-based control of Space Station Freedom-based p 263 A93-35570 robots Effects long-term weightlessness p 279 A93-39725 circularyection Effects of sleep deprivation and exercise on glucose p 281 A93-41165

Quantitative EMG analysis in soleus and plantaris during hindlimb suspension and recovery p 326 A93-44176 Baroreflex function and cardiac structure with moderate endurance training in normotensive men

p 332 Influence of temperature and metabolic rate on work performance with Canadian Forces NBC clothing

p 389 A93-49218 Continuous vs. intermittent work with Canadian forces p 389 A93-49219

A space manipulator with inertially fixed base? p 393 A93-51452 LAIAA PAPER 93-3866 I Evaluation of spontaneous baroreflex response after 28 A93-52404 days head down tilt bedrest p 386 p 395 A93-52641 Machine vision in space Spectral motion produces an auditory after-effect

NBC clothing

p 405 A93-55579 p 399 A93-55930 Motion sickness and evolution Mechanisms of immune failure in burn injury

p 15 N93-11285 treatment and Asthma in aircrew: Assessment. N93-11315 disposition p 21 monitoring and control system for complex

man-machine systems: Preliminary design p 70 N93-14951

An improved anthropometric test device p 143 N93-19670 Principles for integrating voice I/O in a complex p 146 N93-19774 The active-matrix LC head-down display (AM-LCD): Operational experience and growth potential p 148 N93-19782 Space life sciences overview p 158 N93-21074 The development of an automated cell culture system for use in space life science research p 158 N93-21085 How do zooplankton feed? A critical microgravity experiment p 158 N93-21097 Gravity as a factor in the orientation and vertical migration of marine zooplankton p 158 N93-21098 Cerebral autoregulation in microgravity p 173 N93-21112 Aimed arm movements under changed gravity p 193 N93-21113 Respiratory response to varying degrees of tilt and lower body negative pressure p 173 N93-21114 Bibliography of the Biosciences Division: 1986 to DCIEM-92-201 p 209 N93-23343 Sensory sensitivities and discriminations and their roles in aviation IAD-A2597421 p 224 N93-23479 AFTERRISE: Deep body temperature following exercise [AD-A259887] p 218 N93-23984 Influence of the Cold Buster (tm) sports bar on heat debt, mobilization and oxidation of energy substrates | AD-A262762 | p 285 N93-28939 Evaluation of personal cooling systems in conjunction with explosive ordnance disposal suits [AD-A262862] p 350 Fuzzy neural network methodology applied to medical p 334 N93-29546 diagnosis Modelling and simulation of human retinal vision p 335 N93-30269 processing The air traffic controller's mental model and it's implications for equipment design and trainee selection p 341 N93-30322 Neurophysiological analysis of circadian rhythm entrainment LAD-A2646811 p.361 N93-32018 The responses of cardiovascular during head-up tilt plus lower body negative pressure n 9 A93-11690 Results of experiments on the exploration of genetic with

Drosophila effect of rocket flight factors melanogaster p 1 A93-11691 Protection of Acanthopanax senticosus agains suspension-induced bone loss in rats p 2 A93-13528 Experimental research of the temperature and humidity control system for manned spacecraft cabin

p 10 A93-13529 Effect of DL-DOPA, L-5-HTP and pentobarbital sodium on brain encephalofluctuographs in rats

A93-13530 Effects of sustained + Gz stress on BAEP in waked p 10 A93-13531 rabbits Preliminary study on the physiological changes and tolerance in ground squirrels under several specific p 2 A93-13532 experimental conditions A study of biological effects and characteristics of dynamic responses of organism on landing impact

p 10 A93-13533 Model building, algorithm and simulation of the pressure control system of a cabin p 29 A93-13534

A new protective breathing apparatus

p 29 A93-13535 Response characteristics of semicircular canal in cats under linear acceleration p 3 A93-13536 A software for testing human's ability to trouble-shoot in the condition of multitask p 29 A93-13537 Preliminary observation of influences of three forms of simulated weightlessness on hemorheological

characteristics in rabbit p 3 A93-13538 Evaluation of finger motor reaction in flyer when handling p 29 A93-13539 throttle and stick Study on mechanical characteristics of viscera in dogs

p 3 A93-13540 Preliminary investigation on personality of pilots

p 24 A93-13541 Experimental research on the anti-irradiation effects of

KW-1 - Protective effect on the 5-HT content of tissues p 3 A93-13542 in irradiated mice

Observation of change in cytochrome oxidase content of cerebral cortex in rat under +Gz stress

p 3 A93-13543 Application of system identification to research on p 3 A93-13544 cardiovascular regulative function Effects of oxygen on regulation of cerebral blood flow p 3 A93-13545 in rabbits adapted to hypoxia

Effects of antimotion sickness drug mixture B on ultrastructures of cerebral and cerebellar cortexes in suspended rabbits p 10 A93-13704 Value of frequency domain correlative cardiography

(FCG) to early diagnosis of coronary heart disease p 10 A93-13705

Characteristics of heart rate response (HRR) in young men during exercise p 10 A93-13706

EFfects of different inhalant O2 concentrations on ventilatory and heart rate kinetic responses during p 11 A93-13707 exercise

Effects of + Gz stress on medium- and long-latency auditory evoked responses p 11 A93-13708

Effects of positive acceleration on the microcirculation of rabbit conjunctiva, mesentery, skin, and pia mater p 4 A93-13709

Pharmacological effects of mixture of Eleutherococcus (ELE) and Elscholtzia (ELS) p 11 A93-13710 Experimental study of volatile metabolites of human body p 11 A93-13711

The effects of exposure to 50 mT ELF magnetic fields for 96 h on rabbit EEG p 4 A93-13712 Design of ion source of respiratory mass spectrometer

p 11 A93-13713 Subtraction of 50 Hz interference from electrocardiogram by using cycle averaging method

p 11 A93-13714 The evaluation of tolerance to serious acute hypoxia p 11 A93-13715 in humans

Study of the relationship between therapeutic effects and control parameters of ECP using a simulation method p 11 A93-13716

The effects of cephalad body fluid redistribution on the ultrastructure of the vestibular apparatus of guinea pig p 4 A93-13717

Spectral analysis of visual symbols p 30 A93-13718 A study of human brain somatosensory evoked potential and its application to man-machine-environment system engineering - Preliminary exploration of SEP in normal p 12 A93-13719 adult

Identification of degree of head injury caused by impact p 4 A93-13720 loads in dog and rabbit Relationship between ERP and workload in manual p 30 A93-13721

Investigation of nonlinear dynamic responses to random vibration in dogs p 4 A93-13722

The development of a visual color checkerboard p 30 A93-13723 stimulator Human factors in design of military aircrafts' oxygen p 60 A93-14222

The optimum design of personal liquid cooling system p 60 A93-14314

The dynamic mathematical model and digital simulation p 61 A93-14319 of the environmental control system method overati analysis man-machine-environment systems p 61 A93-14413 The current status and prospects in the study of cell p 38 A93-16001 physiology under microgravity Skin temperature and heat flow of head-neck region under different ambient temperatures p 46 A93-16074

Changes of REG during 4h head-down bed-rest p 46 A93-16075 Effect of hypergravity on astronauts in space flight

p 48 A93-16254 Comparison between VDV and a(rms) using simulated npulsive vibration p 91 A93-19991

impulsive vibration Windblast tolerance of human thorax and abdomen

p 91 A93-19992 Dynamic characteristic of changes of oxygen saturation of blood hemoglobin under conditions of acute hypoxia p 91 A93-19993 in human body

Effects of vitamin D and phosphorus level in diet on bone, skeletal muscle and kidney in suspended rats p 77 A93-19994

Method of selection of astronauts cardiovascular regulative function under simulated weightlessness p 91 A93-19995

EEG changes in man during motion sickness induced by parallel swing n 92 A93-19996 Effects of + Gy stress on human body

p 92 A93-19997 A physiological signal acquisition and processing system p 103 A93-19998 for bed-rest laboratory

A four-pole electric swing and its application to the p 103 A93-19999 research on vestibular function Changes of cAMP and cGMP content in plasma and urine before and after parallel swing stimulation

p 213 A93-30435 Self-organizing character of alpha wave in EEG due to acute hypoxic hypoxia in normal subjects

p 213 A93-30436 Effect of heat acclimatization on cAMP level in plasma, cerebrospinal fluid and preoptic area-hypothalamus in p 199 A93-30437 hyperthermal rabbits

Effect of simulated weightlessness on microvessel permeability of various organs in rabbits

p 199 A93-30438 Dynamic multiobjective decision and its application in environmental control and life support system

p 230 A93-30439 'Screening-Controlling' Psychological Selection System for Air Force pilot cadet p 222 A93-30440 growth of spirulina Influence of space-flight factors on p 199 A93-30441

Effect of acute hypoxia exposures on plasma endothelin p 199 A93-30442 Neurobehavioral test in civil aviation flight personnel p 223 A93-30443

Effects of cold injury on serum angiotensin converting p 199 A93-30444 enzyme activities in rats Cardiovascular problems during space flight

p 213 A93-30445 Hypoxic ventilatory responsive in Tibetan compared p 280 A93-41120 with Han residents of 3 658 m. Effects of acute hypoxia on intracranial dynamics in p 326 A93-44177 nanesthetized goats Effects of two kinds of Chinese herb medicine on rabbit's ear microcirculation under simulated weightlessness

p 327 A93-44842 Protective effects of Rhodiola crenulata on rats under antiorthostatic position and professional athletes

p 327 A93-44843 Protection of Chinese medicine and low frequency magnetic field against suspension induced bone loss in p 327 A93-44844 Radiation dose measurement and biostack experiment

in biocabin on board satellite p 327 A93-44845 Evaluation of speech technology for enhancing performance of man-machine systems p 350 A93-44846

Investigation on requirements for ejection acceleration p 332 A93-44847 measuring system Analysis of factors influencing contrast vision in normal p 332 A93-44848 Problems of respiratory physiology during space flight p 332 A93-44849

Review of the space medico-engineering research in China p 402 A93-55802 [AAS PAPER 91-623]

Postoperative hyperbaric oxygen treatment of periphéral nerve damage [AD-A255842] p 52 N93-14084

D

DENMARK

Effects of acute hypoxia on renal and endocrine function at rest and during graded exercise in hydrated subjects p 93 A93-20035

Gravitational stress and volume regulation p 165 A93-28709 Influence of in vivo hypobaric hypoxia on function of lymphocytes, neutrocytes, natural killer cells. p 280 A93-41123 cytokines

Renal hemodynamics, tubular function, and response to low-dose dopamine during acute hypoxia in humans p 332 A93-44180

Arterial pulse pressure and vasopressin release in humans during lower body negative pressure p 360 A93-47096

Effect of water immersion on renal natriuretic peptide p 381 A93-49293 (urodilatin) excretion in humans Volume-homeostatic mechanisms in humans during a 12-h posture change p 387 A93-52620 Central cardiovascular pressures during graded water mersion in humans p 402 A93-55457

immersion in humans Training concept for crew, end user, and ground centre

personnel in the Columbus utilisation programme p 226 N93-24382

FINLAND

Flight helmet weight, +Gz forces, and neck muscle strain p 136 A93-24046 Postural stabilization on a moving platform oscillating at high frequencies p 252 A93-35497 The prediction of the adaptation of circadian rhythms p 278 A93-39714 to rapid time zone changes Determinants of +Gz-related neck pain - A preliminary p 380 A93-49227 survey Degeneration of cervical intervertebral disks in fighter pilots frequently exposed to high +Gz forces

p 384 A93-52298

Correlation of results of radiant heat test and convective heat test for three layered protective clothing p 194 N93-21161

Biotechnical production and use of pyruvic acid with Otolithic illusions on takeoff and visual information: Responses of Bacillus subtilis spores to space special reference to coenzyme regeneration Reflections in connection with an air accident case environment - Results from experiments in space IVTT-PUBS-771 p 209 N93-23369 p 134 N93-19681 p 268 A93-36556 Fires on board aircraft: Toxicological risk in flight FRANCE Life in hot springs and hydrothermal vents Hypoxia-induced downregulation of beta-adrenergic p 126 N93-19694 p 243 A93-36559 The influence of individual sensivity to stress on the receptors in rat heart p 37 A93-14973 Ferrous iron oxidation by anoxygenic phototrophic For space suits - The multifunction pressure behavior (attitude and performance) of avoidance of an p 271 A93 39280 bacteria p 61 A93-15057 p 134 N93-19705 reducer-regulator of Intertechnique Recent regenerative ECLSS technology developments Study of the spectrum of power of cardiac rhythm during Balance and gait analysis after 30 days -6 deg bed rest n Europe tasks relating to the safety of the control of an p 304 A93-41493 Influence of lower-body negative-pressure sessions ISAE PAPER 9213321 p 127 N93-19707 apparatus D 48 A93-16161 Hermes ECLSS - Main requirements and technical Contribution of the analysis of ocular activity Free radical attack - Biological test for human resistance solutions (complementary to the electroencephalographic analysis) capability p 39 A93-17434 |SAE PAPER 921400| p 309 A93-41555 to the detection of low vigilance in instances of piloting Clinical and diagnostic requirements - Biochemical Effects of chronic hypoxia and exercise on plasma p 127 N93-19708 exploration of amino acid metabolism, tRNA turnover and erythropoietin in high-altitude residents Advanced Aircraft Interfaces: The Machine Side of the lymphocyte activation p 49 A93-17442 p 331 A93-42191 Man-Machine Interface Biomedical engineering and space Manned Space-Laboratories Control Centre (MSCC) p 144 N93-19757 AGARD-CP-521 p 103 A93-20015 p 339 A93-43330 Flight above a virtual world p 145 N93-19766 training T wave changes in humans and dogs during Multimodal dialog system for future cockpits Some qualitative and quantitative aspects of the p 92 A93-20026 experimental dives p 146 N93-19773 fast-rotating clinostat as a research tool Differential effects of long-term G-load effects and efficient acoustic parameters for p 375 A93-49209 hypoxia norepinephrine turnover in brain stem cell groups robust speaker recognition p 146 N93-19775 How well does the clinostat mimic the effect of p 78 p 237 N93-23908 A93-20030 SETL in Europe microgravity on plant cells and organs? N93-24403 Gravity and root morphogenesis Effects of sleep deprivation on the cognitive capacities p 210 p 376 A93-49213 Exobiology and terrestrial life p 237 N93-24405 of visuo-spatial representation and orientation The influence of military low-altitude flight noise on the A93-21870 Combat Automation for Airborne Weapon Systems: p 129 inner ear of the guinea pig. I - Hearing threshold Man/Machine Interface Trends and Technologies Intracardiac hemodynamics in man during short periods p 377 A93-49555 measurements p 317 N93-28850 p 117 | AGARD-CP-520 | of head-down and head-up tilt The influence of military low-altitude flight noise on the Preliminary analysis of sensory disturbances and Nutrition, Metabolic Disorders and Lifestyle of Aircrew inner ear of the guinea pig. II - Scanning electron micrographs p 377 A93-49556 p 367 N93-32240 behavioral modifications of astronauts in space Protein requirements in hypoxia or hypokinesia p 130 Does drinking protect against mountain sickness? p 368 N93-32244 An assessment of the deflecting effect on human p 382 A93-49565 Lipodystrophies in the French military flight crew movement due to the Coriolis inertial forces in a space p 362 N93-32249 Pre-adaptation to shiftwork in space p 170 A93-28758 p 386 A93-52403 Human factors and the safety of flights: The importance Microgravity and bone adaptation at the tissue level p 170 A93-28761 of the management of sleep p 371 N93-32267 Dynamic analysis of ocular torsion in parabolic flight p 386 A93-52405 using video-oculography Magnetic Resonance Imaging evaluation of lower limb Future military pilot training - A perspective of industry muscles during bed rest - A microgravity simulation model p 212 A93-30280 G [AIAA PAPER 93-3601] p 404 A93-52689 Occupational dermatitis in the aircraft industry - 35 years Higher capillary filtration rate in the calves of **GERMANY** of progress p 215 A93-32776 endurance-trained subjects during orthostatic stress Effects of simulated microgravity (HDT) on blood Effects of 28-day isolation (ESA-ISEMSI'90) on blood p 401 A93-55165 p 44 A93-14972 pressure and blood volume regulating hormones Monitoring of pilot actions as part of a knowledge-based Bacterial sulfate reduction above 100 C in deep-sea p 251 A93-35495 system for pilot assistance p 59 N93-15184 p 80 A93-20672 hydrothermal vent sediments Effects of medium blood alcohol levels on pilots' Water in the solar system and its role in exobiology; Short-term microgravity to isolate graviperception in Proceedings of the European Geophysical Society General performance in the Sea King Simulator MK-41 p 111 A93-21901 Assembly, 26th, Wiesbaden, Germany, Apr. 22-26, 1991 p 125 N93-19683 Response of the circadian system to 6 deg head-down p 268 A93-36551 Toxicological investigations of flight accidetns: Findings tilt bed rest p 117 A93-24045 Liquid water and the origin of life p 268 A93-36552 and methods nd methods p 126 N93-19695 27 years armed forces aerospace pathology and Structure of a molecular chaperone from a thermophilic Some biochemical properties an acyclic of archaebacterium p 151 A93-25821 oligonucleotide analogue - A plausible ancestor of the toxicology in the Federal Republic of Germany: Increased release of brain serotonin reduces Development, current status, trends and challenges DNA? p 269 A93-36560 vulnerability to ventricular fibrillation in the cat p 126 N93-19696 Microgravity and orthostatic intolerance - Carotid p 151 A93-26500 hemodynamics and peripheral responses Significance of histological postmortem findings in pilots Graviperception in unicellular organisms - A comparative p 278 A93-39716 killed in military and civil aircraft accidents in Germany behavioural study under short-term microgravity p 126 N93-19697 Dynamic analysis of human visuo-oculo-manual (West): A 25-year-review p 151 Á93-26548 Swimming behavior of the unicellular flagellate, Euglena Advanced cockpit-mission and image management p 144 N93-19760 coordination control in target tracking tasks p 287 A93-41166 gracilis, in simulated and real microgravity Norepinephrine content in discrete brain areas and CVA, cockpit design and development tool p 151 A93-26549 p 147 N93-19780 neurohypophysial vasopressin in rats after a 9-d spaceflight Response of adrenergic receptors to 10 days head-down Equipment, more or less ready to be used p 273 A93-41167 p 162 A93-28679 tilt bedrest Development of the Hermes EVA Space Suit Glove p 148 N93-19785 Cardiovascular response to lower body negative ISAE PAPER 9212561 Biochemically active layers for selective material p 299 A93-41426 essure before, during, and after ten days head-down Development of a 500 hPa shoulder joint for the detection sensors tilt bedrest p 162 A93-28681 European EVA Space Suit System IMBB-Z-0440-92-PUBI n 158 N93-20959 Pulmonary responses to lower body negative pressure [SAE PAPER 921257] p 299 A93-41427 Instructions and advance training measures for the and fluid loading during head-down tilt bedrest Design and preliminary testing of a membrane based mprovement of human reliability p 162 A93-28682 IMBB-FE-313-S-PUB-0500 I water recycling system for European manned space p 181 N93-21402 Cardiopulmonary function during 10 days of head-down User areas in aircraft cockpit, using methods of rapid missions p 162 A93-28683 tilt bedrest rototype development [SAE PAPER 921396] Effects of head-down tilt and saline loading on body Immunocytochemical localization of atrial natriuretic factor (ANF)-like peptides in the brain and heart of the IMBB-FE-315-S-PUB-04931 p 196 N93-22389 weight, fluid, and electrolyte homeostasis in man Stress resistance as a diagnostic category in air traffic p 163 A93-28685 controller selection treefrog Hyla japonica - Effect of weightlessness on the Diuresis and natriuresis following isotonic saline infusion. p 219 N93-24092 distribution of immunoreactive neurons and cardiocytes IDLR-FB-92-131 p 377 A93-49561 in healthy young volunteers before, during, and after Evoked brain potentials as indicators of a central nervous p 163 A93-28688 Reduction of postprandial lipemia after acute exposure HDT impairment in a simulated saturation dive to 560 m p 219 N93-24093 to high altitude hypoxia p 382 A93-49567 Head-down tilt bedrest: HDT'88 - An international IDLR-FB-92-14 | Functional adaptation of different rat skeletal muscles International application of the DLR test-system: collaborative effort in integrated systems physiology p 377 A93-49575 Continuation of the cooperation with Iberia in pilot to weightlessness p 164 A93-28689 Effects of unilateral selective hypergravity stimulation Rated performance, cardiovascular and quantitative selection p 225 N93-24104 DLR-FB-92-121 p 386 A93-52407 on gait EEG parameters during simulated instrument flight under Nocturnal pituitary hormone and renin profiles during Selection of astronauts for European space missions the effect of terfenadine p 165 A93-28708 p 225 N93-24345 p 387 A93-52619 chronic heat exposure Sperm motility under conditions of weightlessness The European astronauts training programme Evaluation of zolpidem on alertness and psychomotor p 156 A93-28730 p 226 N93-24346 abilities among aviation ground personnel and pilots EMATS, a robot-based Equipment Manipulation and p 401 A93-55163 Mir 1992 operations and crew training Transportation System for the Columbus Free Flying p 226 N93-24352 Allergic, Immunological and Infectious Disease Problems p 231 A93-31522 Laboratory N93-24373 in Aerospace Medicine Life in and from space p 237 Bioregenerative life support as self-sustaining [AGARD-CP-518] p 14 N93-11283 Columbus payload requirements in human physiology ecosystem in space p 231 A93-32073 p 220 N93-24386 Immunization of personnel traveling to a destination in Relationship between pituitary ACTH content and non-invasive p 19 N93-11304 tropical countries: French position Cardiovascular stress with hypothalamic catecholamines in the rat p 221 N93-24399 Operational use of contact lenses by military aircrew p 95 N93-15824 p 203 A93-33028 [AGARD-AG-334] CEBAS-Aquarack: An artificial aquatic animal plant

Two circadian oscillators in one cell

p 239 A93-34518

Human performance assessment methods

[AGARD-AG-308-ADD]

p 133 N93-18868

p 210 N93-24401

ecosystem as a tool for basic research in the Columbus

Space Station

Ecosystems on Earth and in space (the possible utilization of artificial ecosystems for space life support p 236 N93-24406 DOKMA: A document oriented communication model for medical applications as a basis of a role system in the medical field [ETN-93-93799] p 284 N93-28469 Pilot intent and error recognition as part of a knowledge ased cockpit assistant p 318 N93-28855 based cockpit assistant Symbology for head up and head down applications for highly agile fighter aircraft: To improve spatial awareness, trajectory control, and unusual attitude recovery, part 1 p 318 N93-28857 Photobiological investigations spores streptomyces griseus p 277 N93-29274 Computer-generated parallel tests for aptitude measurement in the selection of aviation operators p 343 N93-31229 Background and objectives of the PARAT program p 343 N93-31230 Phases of the project development and examination methodologies p 343 N93-31231 The position test: A computer generated process for acquisition of inductive logic thinking p 343 N93-31232 The test memorization of symbols and numbers: A computer generated test for visual sensitivity p 343 N93-31233 The clearance test: A computer generated process for acquisition of auditive short term sensitivity p 343 N93-31234 The concentration loading test system: A computer generated process for acquisition of attentiveness control p 344 N93-31235 The aircraft position tests: A computer generated process for acquisition of spatial orientation capability p 344 N93-31236 The cube rotation test: A computer generated process for acquisition of mental spatial manipulator capability p 344 N93-31237 The PARAT tests as examination system p 344 N93-31238 Results and management of pathological lipoprotein concentrations and other cardiovascular risk factors in military pilots of the German Federal Armed Forces p 363 N93-32254 GREECE Applied chemical engineering thermodynamics [ISBN 0-387-54759-2] p 357 A93-46075 Allergic and nonallergic rhinitis in Greek pilots p 21 N93-11317 Correlation of serum alpha sub 1 antitrypsin with cigarette smoking and pulmonary function status in Greek p 22 N93-11318 pilots, for a ten year period Formal aspects of human-computer interaction p 66 N93-13909 Aircraft accident injuries in the Hellenic Air Force in the p 126 N93-19698 last 20 years Lipidemic profile of Hellenic Airforce officers p 362 N93-32250 Correlation of life-style and dietary concomitants of Greek pilots with serum analytes p 369 N93-32256 Lower body negative pressure system for simulation of + Gz-induced physiological strain

INDIA

Alteration of structure and mobility of erythrocyte aggregates under normal- to microgravity conditions p 200 A93-32072 Changes in body fluid compartments during hypohydration and rehydration in heat-acclimated tropical

p 251 A93-35496 Mathematical model for the exchange of gases in the lungs with special reference to carbon monoxide

p 271 A93-39707 Body fluid compartments, renal blood flow, and hormones at 6,000 m in normal subjects

p 281 A93-41125
Designs and development of a master-slave deoperated robot teleoperated robot INTERNATIONAL ORGANIZATION

C.R.M. training for the advanced flight deck

p 24 A93-13410 A new generation of astronauts in space - The astronaut selection process p.57 A93-17071 Suction-cup shoes for astronauts - A new method of foot restraint p 62 A93-17072 Zero-gravity underwater simulations for the Columbus programme - Outcome of the first campaigns

p 62 A93-17075 The training of the new astronaut candidates at EAC p 129 A93-23693 European astronaut candidates in training in the CIS p 256 A93-34593

European involvement in CELSS - Definition of a Closed **Ecological Systems Test Bed** | SAE PAPER 921200 | p 295 A93-41376

An operational evaluation process for long-duration mission habitats in space p 345 A93-42114 The psychological challenge of space

p 339 A93-42658 Implementation of biological elements in life support systems - Rationale and development milestones

p 390 A93-49302

The development and use of a generic nonnormal checklist with applications in ab initio and Introductory p 180 A93-27456 Advanced Qualification Programs ISRAEL

Visual display aid for orbital maneuvering - Design onsiderations p 135 A93-23518 Visual display aid for orbital maneuvering - Experimental considerations p 136 A93-23519 p 181 A93-26885 Designing the right visor Predicting increases in skin temperature using heat stress indices and relative humidity in helicopter pilots

p 167 A93-28729 Flight-path estimation in passive low-altitude flight by p 223 A93-32004 Performance under dichoptic versus binocular viewing

conditions - Effects of attention and task requirements p 287 A93-40772

New technologies for in-flight pasteless bioelectrodes p 289 A93-41174

Acute hypertensive response to +Gz acceleration in ildly hypertensive pilots p 386 A93-52307 Visual field information in nap-of-the-Earth flight by mildly hypertensive pilots teleoperated helmet-mounted displays

p 311 N93-27177

The evolution of aminoacyl-tRNA synthetases, the biosynthetic pathways of amino acids and the genetic p 73 A93-17825 Influence of stress on lymphocyte subset distribution -A flow cytometric study in young student pilots

p 118 A93-25203 The strategic role of automation and robotics for Columbus utilization p 181 A93-26567 On the biological effects of cosmic rays - Epidemiological studies p 239 A93-34858

Long-lasting neuropsychological changes after a single p 278 A93-39713 high altitude climb Myosin and troponin changes in rat soleus muscle after hindlimb suspension p 273 A93-41124

Labels and visual cues to reproduce an earthlike environment in space - Going ahead in designing Columbus APM interior architecture ISAE PAPER 9211931

p 295 A93-41371 The effects of a reduced pressure scenario on the Columbus APM environmental control system

[SAE PAPER 921247] p 298 A93-41418 System integration and verification approach for the environmental control system of the Columbus Attached Pressurised Module

ISAE PAPER 9212611 p 299 A93-41431 Environmental control of the Mini Pressurized Logistic

(SAE PAPER 921281) n 302 A93-41449 Effects of air bubble contamination in recirculating water

ISAF PAPER 9212821 p 302 A93-41450

Ontology of mind, subjective ontology, and the example of temporal expressions | REPT-92-018 | p 26 N93-11212

Clinical types of Hepatitis B p 15 N93-11286 Vaccination against Hepatitis B: The Italian strategy p 15 N93-11289

Silent HIV infection p 16 N93-11293 HIV variability and perspectives of a vaccine p 16 N93-11294

Absence of protective immunity against diphtheria in a large proportion of young adults p 18 N93-11302 Dramatic reduction of meningococcal meningitis among military recruits in Italy after introduction of specific p 18 N93-11303 vaccination

Clinical and immunological response to vaccination with parenteral or oral vaccines in two groups of 30 recruits p 19 N93-11305

Cytokines as vaccine adjuvants: Interleukin 1 and its synthetic peptide 163-171 p 20 N93-11309

The screening of inhalant allergic diseases in the selection of candidates for aircraft piloting

p 21 N93-11312 In vivo and in vitro diagnosis of allergic respiratory disease during screening procedures in the Italian Navy: Comparative ` evaluation of a recent quantitative automatized enzyme immunoassay method to dose D 21 N93-11314 specific IgE

Conversion of temporal correlations between stimuli to spatial correlations between attractors

PREPRINT-8561 p 96 N93-16962 Constraints on learning in dynamic synapses

I PREPRINT-8901 p 100 N93-17026 Effective neurons and attractor neural networks in cortical environment

I PREPRINT-829 I p.82 N93-17214 Spontaneous regulating mechanisms that may have led to the origin of life

p 331 N93-31161 DE93-603677 Idiopathic Reactive Hypophycemia in a population of healthy trainees of an Italian Air Force military school p 368 N93-32248

Cardiovascular risk factors in an Italian Air Force p 362 N93-32252 population: Preliminary report

JAPAN

Design of a display system for a human pilot's p 27 A93-11201 supervisory tasks Human factors in the 'glass cockpit'

p 27 A93-11202 Space robotics and its man-machine interface

p 27 A93-11204 Study of the whole-body response to vibration: The effect of repeated exposure to the long-term whole-body vibration. II p 9 A93-11286 Controllability of the voice command system -

p 27 A93-11287 preliminary study Organic models of interstellar grains

p 35 A93-11847 Behavioral adaptation to sustained hypobaric hypoxia manifested by timing behavior in rats. I

p 37 A93-15526 Adaptation of skeletal muscles and physical work capacity in a weightless environment p 38 A93-15527 Hematological changes in space microgravity p 46 A93-15528 environments Contribution of psychiatry to life in space

p 56 A93-15529 The cardiovascular system p 46 A93-15530 An experimental approach to chemical evolution in p 74 A93-18008 submarine hydrothermal systems Thermogenesis induced by inhibition of shivering during cold exposure in exercise-trained rats

p 75 A93-18039 Modification of water and electrolyte metabolism during head-down tilting by hypoglycemia in men

p 92 A93-20029 Influence of viscous resistance on heart rate and oxygen uptake during treadmill walking in water

p 94 A93-20898 Effects of head down tilt on hepatic circulation and metabolism in conscious dogs p 80 A93-20899 Research and development of sensing and manipulation techniques for space robotics on a testbed

p 136 A93-24873 [AIAA PAPER 93-0794] Thermal evolution of cometary nuclei by radioactive heating and possible formation of organic chemicals

p 196 A93-27561 Changes in vitamin A status following prolonged immobilization (simulated weightlessness)

p 166 A93-28720 Simulated weightlessness and bone metabolism -Gravitational stimulation enhances insulin sensitivity

p 168 A93-28736 Working hours and fatigue of Japanese flight attendants

p 171 A93-28762 (FA) Two types of occlusion cues for the perception of 3-D

illusory objects in binocular fusion p 222 A93-30239 Cardiovascular responses to upright tilt at a simulated altitude of 3,700 m in men p 212 A93-30281 Ultrastructural and biochemical studies on muscle

atrophy induced by suspension and suspension with denervation in lower limbs of rats p 200 A93-31530 Effects of visually induced self-motion perception

(vection) on upright standing posture p 214 A93-31531

Human behavior in virtual environments

p 233 A93-33447 High-altitude pulmonary edema pulmonary thromboembolism p 278 A93-39709 Neuropharmacology of motion sickness and emesis

A review p 271 A93-39711 Motion sickness induced by sinusoidal linear

acceleration in rats p 272 A93-39712 A trade study method for determining the design parameter of CELSS subsystems

SAE PAPER 9211981 p 295 A93-41374 Development of the nitrogen fixation system for CELSS

[SAE PAPER 921238] p 297 A93-41411

	WYDAY70TAN	MARWAY
Concept of waste transferring mechanisms [SAE PAPER 921239] p 297 A93-41412	KYRGYZSTAN The effect of the activation of the sympatho-adrenal	NORWAY Man-machine interface issues for space nuclear power
Experimental and theoretical study on membrane	system on catecholamine inactivation in rat lungs	systems p 60 A93-13907
distillation using thermopervaporation	p 2 A93-12864	Vestibular problems in diving and in space
[SAE PAPER 921397] p 309 A93-41554	Functional state of the vegetative nervous system in	p 169 A93-28747
Cognitive performance and event-related brain	women undergoing high-altitude adaptation and	The psychological effects of isolation on a space station
potentials under simulated high altitudes	readaptation to 760 m above sea level	- A simulation study
p 331 A93-42189	p 44 A93-15165	ISAE PAPER 921191 p 287 A93-41369
On the reaction of 2-aminopropionitrile in aqueous		Variability over time of complement activation induced
media p 354 A93-43791	1	by air bubbles in human and rabbit sera
Catalytic accretion of thermal heterocomplex molecules	-	p 323 A93-42190
from amino acids in aqueous milieu p 354 A93-43793	LATVIA	The next generation female in cockpit: Do we need a
Respiration curves as an index of pilot workload	Evaluation of the efficiency of the pilot's control activity	new approach to cockpit resource management (CRM)?
p 332 A93-45320	in a flight simulator p 100 A93-18347	p 143 N93-19704
Relationship between alcohol drinking habit and blood	A procedure for estimating the variables of the	The USO-concept applied to a biological model
pressure changes during the period of 25 years on JASDF	working-condition space of a man-machine system for the	experiment p 210 N93-24379
aged pilots p 333 A93-45321	control of a moving object p 364 A93-45685	Portable equipment developed to estimate energy
The effect of G-experience on heart rate during +Gz loading p 333 A93-45322		expenditure by simultaneous recording of heart rate and
loading p 333 A93-45322 A computer simulation model for attention distribution	M	body position p 368 N93-32243
and event generation p 340 A93-45323	101	Changes in food and energy intake in military aircrew
Image technology and information analysis of bone	MEXICO	p 368 N93-32246
change with gravitational exposure p 378 A93-49177	Computational study of radiation chemical processing	Changes in some lifestyle parametres in Norwegian
Arterial oxygen saturation during +Gz acceleration by	in comet nuclei p 109 A93-17982	pilots as students, and after 6 and 12 years of service
short-radius centrifuge p 379 A93-49178	·	p 370 N93-32261
Effect of chronic centrifugation on in vitro fertilization	N	
and early development in mice ova p 375 A93-49179	N	P
Effect of food intake on skin vasomotor responses to	NETHERLANDS	•
head-up tilt in humans p 379 A93-49180	Studies towards the crystallization of the rod visual	POLAND
Hemodynamic and hormonal correlates with exposure to lower body negative pressure after 12 hours head-down	pigment rhodopsin p 1 A93-11150	Methodology for ergonomic tests of the information
tilt p 379 A93-49220	Comparison of four noninvasive rewarming methods for	display on monitor indicators p 101 A93-18530
Flight crew sleep during multiple layover polar flights	mild hypothermia p 88 A93-18037	Ergonomic aspects of the presentation of
p 380 A93-49226	Energy expenditure climbing Mt. Everest	piloting-navigation information p 101 A93-18531
Effects of high altitudes on finger cooling test in	p 92 A93-20031	On cockpit (crew) resource management
Japanese and Tibetans at Qinghai Plateau	Increased orthostatic blood pressure variability after	p 223 A93-31490
p 382 A93-49560	prolonged head-down tilt p 161 A93-28676	Information management problems and their influence
Effect of transdermally administered scopolamine on the	Influence of posture and prolonged head-down tilt on	on cockpit equipment architecture of transport aircraft
vestibular system in humans p 383 A93-49572	cardiovascular reflexes p 161 A93-28677	p 223 A93-31491
Salivary total protein and experimental Coriolis	HERA - A reliable and safe space robot p 263 A93-35571	Muscle mitochondrial density after exhaustive exercise
sickness p 383 A93-49573	Laboratory simulation of organic grain mantles	in dogs - Prolonged restricted activity and retraining
Theoretical and experimental studies for continuous path	p 268 A93-36554	p 242 A93-35498 PORTUGAL
control of flexible manipulator mounted on a free-flying space robot	Barotrauma in Boeing 737 cabin crew	Civil aviation and cardiology - Admission rules and
[AIAA PAPER 93-3863] p 392 A93-51449	p 278 A93-39706	follow-up of the technical flying personnel of TAP-Air
Mortality experience of cockpit crewmembers from	Inhibition of EGF-induced signal transduction by	Portugal p 164 A93-28699
Japan Airlines p 385 A93-52306	microgravity is independent of EGF receptor redistribution	Nutritional and lifestyle status of 50 pilots of the
Planetary quarantine in the solar system - Survival rates	in the plasma membrane of human A431 cells	Portugese Air Force p 369 N93-32255
of some terrestrial organisms under simulated space	p 272 A93-39715	PUERTO RICO
conditions by proton irradiation p 378 A93-52408	Nucleotide analogs based on pentaerythritol - An	Human factor considerations for the First Lunar
CELSS nutrition system utilizing snails	hypothesis p 325 A93-43794	Outpost
	Altered gravity conditions affect early EGE induced	
p 394 A93-52411	Altered gravity conditions affect early EGF-induced	[AIAA PAPER 93-1014] p 223 A93-30928
p 394 A93-52411 Effect of water immersion on muscle sympathetic nerve	signal transduction in human epidermal A431 cells	•
p 394 A93-52411 Effect of water immersion on muscle sympathetic nerve response during static muscle contraction	signal transduction in human epidermal A431 cells p 376 A93-49214	•
p 394 A93-52411 Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 402 A93-55328	signal transduction in human epidermal A431 cells	[AIÁA PAPER 93-1014] p 223 A93-30928
p 394 A93-52411 Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 402 A93-55328 Shortening velocity and calcium sensitivity of single	signal transduction in human epidermal A431 cells p 376 A93-49214 What optical cues do pilots use to initiate the landing	•
p 394 A93-52411 Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 402 A93-55328 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats	signal transduction in human epidermal A431 cells p 376 A93-49214 What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment AIAA PAPER 93-3561 p 406 A93-52661 A comparative evaluation of three take-off performance	ROMANIA Fractures of the vertebral column after ejection
p 394 A93-52411 Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 402 A93-55328 Shortening velocity and calcium sensitivity of single	signal transduction in human epidermal A431 cells p 376 A93-49214 What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment AIAA PAPER 93-3561 p 406 A93-52661 A comparative evaluation of three take-off performance monitor display types	ROMANIA Fractures of the vertebral column after ejection p 46 A93-15575
p 394 A93-52411 Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 402 A93-55328 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 398 A93-55329 Psychophysiological study on the effects of co-existence of lines for detecting dot target p 405 A93-55330	signal transduction in human epidermal A431 cells p 376 A93-49214 What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment [AIAA PAPER 93-3561] p 406 A93-52661 A comparative evaluation of three take-off performance monitor display types [AIAA PAPER 93-3608] p 406 A93-52669	ROMANIA Fractures of the vertebral column after ejection p 46 A93-15575 RUSSIA
p 394 A93-52411 Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 402 A93-55328 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 398 A93-55329 Psychophysiological study on the effects of co-existence of lines for detecting dot target p 405 A93-55330 Optimal manipulator trajectories for space robots	signal transduction in human epidermal A431 cells p 376 A93-49214 What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment [AIAA PAPER 93-3561] p 406 A93-52661 A comparative evaluation of three take-off performance monitor display types [AIAA PAPER 93-3608] p 406 A93-52669 False cue detection thresholds in flight simulation	ROMANIA Fractures of the vertebral column after ejection p 46 A93-15575 RUSSIA Principles of the organization of calcium metabolism
p 394 A93-52411 Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 402 A93-55328 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 398 A93-55329 Psychophysiological study on the effects of co-existence of lines for detecting dot target p 405 A93-55330 Optimal manipulator trajectories for space robots [AAS PAPER 91-669] p 410 A93-55838	signal transduction in human epidermal A431 cells p 376 A93-49214 What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment [AIAA PAPER 93-3561] p 406 A93-52661 A comparative evaluation of three take-off performance monitor display types [AIAA PAPER 93-3608] p 406 A93-52669 False cue detection thresholds in flight simulation [AIAA PAPER 93-3578] p 407 A93-52674	ROMANIA Fractures of the vertebral column after ejection p 46 A93:15575 RUSSIA Principles of the organization of calcium metabolism p 7 A93:10124
p 394 A93-52411 Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 402 A93-55328 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 398 A93-55329 Psychophysiological study on the effects of co-existence of lines for detecting dot target p 405 A93-55330 Optimal manipulator trajectories for space robots [AAS PAPER 91-669] Research of a free-flying telerobot. IV Development	signal transduction in human epidermal A431 cells p 376 A93-49214 What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment [AIAA PAPER 93-3561] p 406 A93-52661 A comparative evaluation of three take-off performance monitor display types [AIAA PAPER 93-3608] p 406 A93-52669 Fatse cue detection thresholds in flight simulation [AIAA PAPER 93-3578] p 407 A93-52674 Phadiatop: A screening test for inhalant allergy	ROMANIA Fractures of the vertebral column after ejection p 46 A93-15575 RUSSIA Principles of the organization of calcium metabolism p 7 A93-10124 The adrenalin/noradrenalin and the alpha/beta
p 394 A93-52411 Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 402 A93-55328 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 398 A93-55329 Psychophysiological study on the effects of co-existence of lines for detecting dot target p 405 A93-55330 Optimal manipulator trajectories for space robots [AAS PAPER 91-669] Research of a free-flying telerobot. IV - Development of dual-arm manipulation system p 411 A93-56254	signal transduction in human epidermal A431 cells p 376 A93-49214 What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment [AIAA PAPER 93-3561] p 406 A93-52661 A comparative evaluation of three take-off performance monitor display types [AIAA PAPER 93-3608] p 406 A93-52669 False cue detection thresholds in flight simulation [AIAA PAPER 93-3578] p 407 A93-52674 Phadiatop: A screening test for inhalant allergy p 21 N93-11313	ROMANIA Fractures of the vertebral column after ejection p 46 A93-15575 RUSSIA Principles of the organization of calcium metabolism p 7 A93-10124 The adrenalin/noradrenalin and the alpha/beta adrenoreceptor correlations in the myocardium and the
p 394 A93-52411 Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 402 A93-55328 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 398 A93-55329 Psychophysiological study on the effects of co-existence of lines for detecting dot target p 405 A93-55330 Optimal manipulator trajectories for space robots [AAS PAPER 91-669] Research of a free-flying telerobot. IV - Development of dual-arm manipulation system p 411 A93-56254 Research of a free-flying telerobot. V - Handling a target	signal transduction in human epidermal A431 cells p 376 A93-49214 What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment [AIAA PAPER 93-3561] p 406 A93-52661 A comparative evaluation of three take-off performance monitor display types [AIAA PAPER 93-3608] p 406 A93-52669 Fatse cue detection thresholds in flight simulation [AIAA PAPER 93-3578] p 407 A93-52674 Phadiatop: A screening test for inhalant allergy	ROMANIA Fractures of the vertebral column after ejection p 46 A93-15575 RUSSIA Principles of the organization of calcium metabolism p 7 A93-10124 The adrenalin/noradrenalin and the alpha/beta
p 394 A93-52411 Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 402 A93-55328 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 398 A93-55329 Psychophysiological study on the effects of co-existence of lines for detecting dot target p 405 A93-55330 Optimal manipulator trajectories for space robots [AAS PAPER 91-669] Research of a free-flying telerobot. IV - Development of dual-arm manipulation system p 411 A93-56254	signal transduction in human epidermal A431 cells p 376 A93-49214 What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment [AIAA PAPER 93-3561] p 406 A93-52661 A comparative evaluation of three take-off performance monitor display types [AIAA PAPER 93-3608] p 406 A93-52669 False cue detection thresholds in flight simulation [AIAA PAPER 93-3578] p 407 A93-52674 Phadiatop: A screening test for inhalant allergy p 21 N93-11313 A spurious pop-out in visual search [AD-A256548] p 57 N93-14267 Decision making in a dynamic task environment: The	ROMANIA Fractures of the vertebral column after ejection p 46 A93-15575 RUSSIA Principles of the organization of calcium metabolism p 7 A93-10124 The adrenalin/noradrenalin and the alpha/beta adrenoreceptor correlations in the myocardium and the adrenergic chronotropic and ionotropic reactions under extreme conditions and during adaptation p 1 A93-10125
p 394 A93-52411 Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 402 A93-55328 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 398 A93-55329 Psychophysiological study on the effects of co-existence of lines for detecting dot target p 405 A93-55330 Optimal manipulator trajectories for space robots [AAS PAPER 91-669] p 410 A93-55838 Research of a free-flying telerobot. IV - Development of dual-arm manipulation system p 411 A93-56254 Research of a free-flying telerobot. V - Handling a target with multi-arms p 411 A93-56255 Telemanipulation experiment using predictive display p 411 A93-56256	signal transduction in human epidermal A431 cells p 376 A93-49214 What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment [AIAA PAPER 93-3561] p 406 A93-52661 A comparative evaluation of three take-off performance monitor display types [AIAA PAPER 93-3608] p 406 A93-52669 False cue detection thresholds in flight simulation [AIAA PAPER 93-3578] p 407 A93-52674 Phadiatop: A screening test for inhalant allergy p 21 N93-11313 A spurious pop-out in visual search [AD-A256548] p 57 N93-14267 Decision making in a dynamic task environment: The effect of time pressure	ROMANIA Fractures of the vertebral column after ejection p 46 A93-15575 RUSSIA Principles of the organization of calcium metabolism p 7 A93-10124 The adrenalin/noradrenalin and the alpha/beta adrenoreceptor correlations in the myocardium and the adrenergic chronotropic and ionotropic reactions under extreme conditions and during adaptation p 1 A93-10125 Flavoproteins as natural prototypes of molecular
p 394 A93-52411 Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 402 A93-55328 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 398 A93-55329 Psychophysiological study on the effects of co-existence of lines for detecting dot target p 405 A93-55330 Optimal manipulator trajectories for space robots [AAS PAPER 91-669] Research of a free-flying telerobot. IV - Development of dual-arm manipulation system p 411 A93-56254 Research of a free-flying telerobot. V - Handling a target with multi-arms p 411 A93-56255 Telemanipulation experiment using predictive display p 411 A93-56256 Skill compensation and dynamic coupling of	signal transduction in human epidermal A431 cells p 376 A93-49214 What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment [AIAA PAPER 93-3561] p 406 A93-52661 A comparative evaluation of three take-off performance monitor display types [AIAA PAPER 93-3608] p 406 A93-52669 False cue detection thresholds in flight simulation [AIAA PAPER 93-3578] p 407 A93-52674 Phadiatop: A screening test for inhalant allergy p 21 N93-11313 A spurious pop-out in visual search [AD-A256548] p 57 N93-14267 Decision making in a dynamic task environment: The effect of time pressure [AD-A256557] p 58 N93-14602	ROMANIA Fractures of the vertebral column after ejection p 46 A93-15575 RUSSIA Principles of the organization of calcium metabolism p 7 A93-10124 The adrenalin/noradrenalin and the alpha/beta adrenoreceptor correlations in the myocardium and the adrenergic chronotropic and ionotropic reactions under extreme conditions and during adaptation p 1 A93-10125 Flavoproteins as natural prototypes of molecular electronic devices with photocontrolled conductivity
p 394 A93-52411 Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 402 A93-55328 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 398 A93-55329 Psychophysiological study on the effects of co-existence of lines for detecting dot target p 405 A93-55330 Optimal manipulator trajectories for space robots [AAS PAPER 91-669] Research of a free-flying telerobot. IV Development of dual-arm manipulation system p 411 A93-56254 Research of a free-flying telerobot. V - Handling a target with multi-arms Telemanipulation experiment using predictive display p 411 A93-56256 Skill compensation and dynamic coupling of macro/smart effector system p 411 A93-56260	signal transduction in human epidermal A431 cells p 376 A93-49214 What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment [AIAA PAPER 93-3561] p 406 A93-52661 A comparative evaluation of three take-off performance monitor display types [AIAA PAPER 93-3608] p 406 A93-52669 Fatse cue detection thresholds in flight simulation [AIAA PAPER 93-3578] p 407 A93-52674 Phadiatop: A screening test for inhalant allergy p 21 N93-11313 A spurious pop-out in visual search [AD-A256548] p 57 N93-14267 Decision making in a dynamic task environment: The effect of time pressure [AD-A2566557] p 58 N93-14602 High-resolution contrast control on a video display:	ROMANIA Fractures of the vertebral column after ejection p 46 A93-15575 RUSSIA Principles of the organization of calcium metabolism p 7 A93-10124 The adrenalin/noradrenalin and the alpha/beta adrenoreceptor correlations in the myocardium and the adrenergic chronotropic and ionotropic reactions under extreme conditions and during adaptation p 1 A93-10125 Flavoproteins as natural prototypes of molecular electronic devices with photocontrolled conductivity p 1 A93-11199
p 394 A93-52411 Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 402 A93-55328 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 398 A93-55329 Psychophysiological study on the effects of co-existence of lines for detecting dot target p 405 A93-55330 Optimal manipulator trajectories for space robots [AAS PAPER 91-669] Research of a free-flying telerobot. IV - Development of dual-arm manipulation system p 411 A93-56254 Research of a free-flying telerobot. V - Handling a target with multi-arms p 411 A93-56255 Telemanipulation experiment using predictive display p 411 A93-56256 Skill compensation and dynamic coupling of macro/smart effector system p 411 A93-56260 Study on environment control and life support	signal transduction in human epidermal A431 cells p 376 A93-49214 What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment [AIAA PAPER 93-3561] p 406 A93-52661 A comparative evaluation of three take-off performance monitor display types [AIAA PAPER 93-3608] p 406 A93-52669 False cue detection thresholds in flight simulation [AIAA PAPER 93-3578] p 407 A93-52674 Phadiatop: A screening test for inhalant allergy p 21 N93-11313 A spurious pop-out in visual search [AD-A256548] p 57 N93-14267 Decision making in a dynamic task environment: The effect of time pressure [AD-A256557] p 58 N93-14602 High-resolution contrast control on a video display: Method and calibration	ROMANIA Fractures of the vertebral column after ejection p 46 A93-15575 RUSSIA Principles of the organization of calcium metabolism p 7 A93-10124 The adrenalin/noradrenalin and the alpha/beta adrenoreceptor correlations in the myocardium and the adrenergic chronotropic and ionotropic reactions under extreme conditions and during adaptation p 1 A93-10125 Flavoproteins as natural prototypes of molecular electronic devices with photocontrolled conductivity The effect of low-intensity electromagnetic
p 394 A93-52411 Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 402 A93-55328 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 398 A93-55329 Psychophysiological study on the effects of co-existence of lines for detecting dot target p 405 A93-55330 Optimal manipulator trajectories for space robots [AAS PAPER 91-669] Research of a free-flying telerobot. IV - Development of dual-arm manipulation system p 411 A93-56254 Research of a free-flying telerobot. V - Handling a target with multi-arms p 411 A93-56255 Telemanipulation experiment using predictive display p 411 A93-56256 Skill compensation and dynamic coupling of macro/smart effector system p 411 A93-56260 Study on environment control and life support technology p 149 N93-20413	signal transduction in human epidermal A431 cells p 376 A93-49214 What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment [AIAA PAPER 93-3561] p 406 A93-52661 A comparative evaluation of three take-off performance monitor display types [AIAA PAPER 93-3608] p 406 A93-52669 False cue detection thresholds in flight simulation [AIAA PAPER 93-3578] p 407 A93-52674 Phadiatop: A screening test for inhalant allergy p 21 N93-11313 A spurious pop-out in visual search [AD-A256548] p 57 N93-14267 Decision making in a dynamic task environment: The effect of time pressure [AD-A256557] p 58 N93-14602 High-resolution contrast control on a video display: Method and calibration [AD-A256552] p 60 N93-15400	ROMANIA Fractures of the vertebral column after ejection p 46 A93:15575 RUSSIA Principles of the organization of calcium metabolism p 7 A93:10124 The adrenalin/noradrenalin and the alpha/beta adrenoreceptor correlations in the myocardium and the adrenergic chronotropic and ionotropic reactions under extreme conditions and during adaptation p 1 A93:10125 Flavoproteins as natural prototypes of molecular electronic devices with photocontrolled conductivity p 1 A93:11199 The effect of low-intensity electromagnetic millimeter-wave radiation on the rat cardiovascular
p 394 A93-52411 Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 402 A93-55328 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 398 A93-55329 Psychophysiological study on the effects of co-existence of lines for detecting dot target p 405 A93-55330 Optimal manipulator trajectories for space robots [AAS PAPER 91-669] p 410 A93-5538 Research of a free-flying telerobot. IV - Development of dual-arm manipulation system p 411 A93-56254 Research of a free-flying telerobot. IV - Handling a target with multi-arms p 411 A93-56255 Telemanipulation experiment using predictive display p 411 A93-56256 Skill compensation and dynamic coupling of macro/smart effector system p 411 A93-56260 Study on environment control and life support technology p 149 N93-20413 Telescience testbedding for physiological experiments	signal transduction in human epidermal A431 cells p 376 A93-49214 What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment [AIAA PAPER 93-3561] p 406 A93-52661 A comparative evaluation of three take-off performance monitor display types [AIAA PAPER 93-3608] p 406 A93-52669 False cue detection thresholds in flight simulation [AIAA PAPER 93-3578] p 407 A93-52674 Phadiatop: A screening test for inhalant allergy p 21 N93-11313 A spurious pop-out in visual search [AD-A256548] p 57 N93-14267 Decision making in a dynamic task environment: The effect of time pressure [AD-A256557] p 58 N93-14602 High-resolution contrast control on a video display: Method and calibration [AD-A256552] p 60 N93-15400 Occupant simulation as an aspect of flight safety	ROMANIA Fractures of the vertebral column after ejection p 46 A93-15575 RUSSIA Principles of the organization of calcium metabolism p 7 A93-10124 The adrenalin/noradrenalin and the alpha/beta adrenoreceptor correlations in the myocardium and the adrenergic chronotropic and ionotropic reactions under extreme conditions and during adaptation p 1 A93-10125 Flavoproteins as natural prototypes of molecular electronic devices with photocontrolled conductivity p 1 A93-11199 The effect of low-intensity electromagnetic millimeter-wave radiation on the rat cardiovascular system p 2 A93-12861
Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 402 A93-55328 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 398 A93-55329 Psychophysiological study on the effects of co-existence of lines for detecting dot target p 405 A93-55330 Optimal manipulator trajectories for space robots [AAS PAPER 91-669] Research of a free-flying telerobot. IV - Development of dual-arm manipulation system p 411 A93-56254 Research of a free-flying telerobot. V - Handling a target with multi-arms Telemanipulation experiment using predictive display p 411 A93-56256 Skill compensation and dynamic coupling of macro/smart effector system p 411 A93-56260 Study on environment control and life support technology Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398	signal transduction in human epidermal A431 cells p 376 A93-49214 What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment [AIAA PAPER 93-3561] p 406 A93-52661 A comparative evaluation of three take-off performance monitor display types [AIAA PAPER 93-3608] p 406 A93-52669 False cue detection thresholds in flight simulation [AIAA PAPER 93-3578] p 407 A93-52674 Phadiatop: A screening test for inhalant allergy p 21 N93-11313 A spurious pop-out in visual search [AD-A256548] p 57 N93-14267 Decision making in a dynamic task environment: The effect of time pressure [AD-A256557] p 58 N93-14602 High-resolution contrast control on a video display: Method and calibration [AD-A256552] p 60 N93-15400 Occupant simulation as an aspect of flight safety research p 142 N93-19665	ROMANIA Fractures of the vertebral column after ejection p 46 A93:15575 RUSSIA Principles of the organization of calcium metabolism p 7 A93:10124 The adrenalin/noradrenalin and the alpha/beta adrenoreceptor correlations in the myocardium and the adrenergic chronotropic and ionotropic reactions under extreme conditions and during adaptation p 1 A93:10125 Flavoproteins as natural prototypes of molecular electronic devices with photocontrolled conductivity p 1 A93:11199 The effect of low-intensity electromagnetic millimeter-wave radiation on the rat cardiovascular
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Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 402 A93-55328 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 398 A93-55329 Psychophysiological study on the effects of co-existence of lines for detecting dot target p 405 A93-55330 Optimal manipulator trajectories for space robots [AAS PAPER 91-669] Research of a free-flying telerobot. IV - Development of dual-arm manipulation system p 411 A93-56254 Research of a free-flying telerobot. V - Handling a target with multi-arms p 411 A93-56255 Telemanipulation experiment using predictive display p 411 A93-56256 Skill compensation and dynamic coupling of macro/smart effector system p 411 A93-56260 Study on environment control and life support technology p 149 N93-20413 Telescience testbedding for physiological experiments under hypobaric conditions p 220 N93-24398 Japanese treefrog experiment onboard the Space Station Mir p 316 N93-28029 Conceptual study of manned lunar surface site p 316 N93-28031 Manned lunar surface site: Conceptual study on pressurized lunar surface site: D 316 N93-28032 Manned lunar surface experiment system p 316 N93-28033 Lunar surface experiment system p 316 N93-28033 Lunar surface experiment system p 316 N93-28033	signal transduction in human epidermal A431 cells p 376 A93-49214 What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment [AIAA PAPER 93-3561] p 406 A93-52661 A comparative evaluation of three take-off performance monitor display types [AIAA PAPER 93-3608] p 406 A93-52669 False cue detection thresholds in flight simulation [AIAA PAPER 93-3578] p 407 A93-52674 Phadiatop: A screening test for inhalant allergy p 21 N93-11313 A spurious pop-out in visual search [AD-A256548] p 57 N93-14267 Decision making in a dynamic task environment: The effect of time pressure [AD-A256557] p 58 N93-14602 High-resolution contrast control on a video display: Method and calibration [AD-A256552] p 60 N93-15400 Occupant simulation as an aspect of flight safety research p 142 N93-19665 Engineering the visibility of small features on electronic flight displays p 145 N93-19767 Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A body mass measurement device based on the oscillation principle p 221 N93-24400 Overview of cockpit technology research and development programs for improvement of the man/machine interface: Review of the AGARD AVP Symposium held in Madrid, May 1992 p 320 N93-28872 An automated processing system for food frequency and nutrition knowledge questionnaire p 367 N93-32241	FROMANIA Fractures of the vertebral column after ejection p 46 A93-15575 RUSSIA Principles of the organization of calcium metabolism p 7 A93-10124 The adrenalin/noradrenalin and the alpha/beta adrenoreceptor correlations in the myocardium and the adrenergic chronotropic and ionotropic reactions under extreme conditions and during adaptation p 1 A93-10125 Flavoproteins as natural prototypes of molecular electronic devices with photocontrolled conductivity p 1 A93-11199 The effect of low-intensity electromagnetic millimeter-wave radiation on the rat cardiovascular system p 2 A93-12861 The values of the skin-temperature gradients and their significance for thermoregulation p 9 A93-12862 The prospects for the improvement of medical monitoring of the health of flight personnel in a military unit p 10 A93-12969 Application of contrasting temperatures as a method of preadapting pilots to the conditions of a hot climate p 45 A93-15166 Reaction characteristics of several neuroregulating systems of cosmonauts after a 366-day-long space flight p 45 A93-15167 Contractile properties of the calf triceps muscle in humans exposed to simulated weightlessness p 45 A93-15168 The quality of an operator's work on a flight simulator under conditions of thermal discomfort
Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 402 A93-55328 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 398 A93-55329 Psychophysiological study on the effects of co-existence of lines for detecting dot target p 405 A93-55330 Optimal manipulator trajectories for space robots [AAS PAPER 91-669] p 410 A93-55838 Research of a free-flying telerobot. IV - Development of dual-arm manipulation system p 411 A93-56254 Research of a free-flying telerobot. V - Handling a target with multi-arms Telemanipulation experiment using predictive display p 411 A93-56255 Skill compensation and dynamic coupling of macro/smart effector system p 411 A93-56260 Study on environment control and life support technology Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 Japanese treefrog experiment onboard the Space Station Mir p 210 N93-28029 Conceptual study of manned lunar surface site p 316 N93-28029 Conceptual study of manned lunar surface site p 316 N93-28031 Manned lunar surface site: Conceptual study on pressurized lunar surface site p 316 N93-28032 Manned lunar surface site: Conceptual study on pressurized lunar surface site p 316 N93-28033 Lunar surface experiment system p 316 N93-28033 Lunar surface experiment system p 316 N93-28033 Lunar surface experiment system p 316 N93-28034	signal transduction in human epidermal A431 cells p 376 A93-49214 What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment [AIAA PAPER 93-3561] p 406 A93-52661 A comparative evaluation of three take-off performance monitor display types [AIAA PAPER 93-3608] p 406 A93-52669 False cue detection thresholds in flight simulation [AIAA PAPER 93-3578] p 407 A93-52674 Phadiatop: A screening test for inhalant allergy p 21 N93-11313 A spurious pop-out in visual search [AD-A256548] p 57 N93-14267 Decision making in a dynamic task environment: The effect of time pressure [AD-A256557] p 58 N93-14602 High-resolution contrast control on a video display: Method and calibration [AD-A256552] p 60 N93-15400 Occupant simulation as an aspect of flight safety research p 142 N93-19665 Engineering the visibility of small features on electronic flight displays p 144 N93-19767 Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A body mass measurement device based on the oscillation principle p 221 N93-24400 Overview of cockpit technology research and development programs for improvement of the man/machine interface: Review of the AGARD AVP Symposium held in Madrid, May 1992 P 320 N93-28872 An automated processing system for food frequency and nutrition knowledge questionnaire p 367 N93-32241 NEW ZEALAND The artful' decision maker - A framework model for aeronautical decision maker p 566 A93-15662	Fractures of the vertebral column after ejection p 46 A93-15575 RUSSIA Principles of the organization of calcium metabolism p 7 A93-10124 The adrenalin/noradrenalin and the alpha/beta adrenoreceptor correlations in the myocardium and the adrenergic chronotropic and ionotropic reactions under extreme conditions and during adaptation p 1 A93-10125 Flavoproteins as natural prototypes of molecular electronic devices with photocontrolled conductivity p 1 A93-11199 The effect of low-intensity electromagnetic millimeter-wave radiation on the rat cardiovascular system p 2 A93-12861 The values of the skin-temperature gradients and their significance for thermoregulation p 9 A93-12862 The prospects for the improvement of medical monitoring of the health of flight personnel in a military unit p 10 A93-1290 Application of contrasting temperatures as a method of preadapting pilots to the conditions of a hot climate p 45 A93-15166 Reaction characteristics of several neuroregulating systems of cosmonauts after a 366-day-long space flight p 45 A93-15166 Contractile properties of the call triceps muscle in humans exposed to simulated weightlessness p 45 A93-15168 The quality of an operator's work on a flight simulator under conditions of thermal discomfort p 45 A93-15162 Pharmacological means of stimulating the work capacity of flight personnel engaged in stressful activity
Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 402 A93-55328 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 398 A93-55329 Psychophysiological study on the effects of co-existence of lines for detecting dot target p 405 A93-55330 Optimal manipulator trajectories for space robots [AAS PAPER 91-669] p 410 A93-55330 Optimal manipulation system p 411 A93-56254 Research of a free-flying telerobot. IV - Development of dual-arm manipulation system p 411 A93-56254 Research of a free-flying telerobot. V - Handling a target with multi-arms Telemanipulation experiment using predictive display p 411 A93-56255 Skill compensation and dynamic coupling of macro/smart effector system p 411 A93-56260 Study on environment control and life support technology Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 Japanese treefrog experiment onboard the Space Station Mir p 210 N93-28029 Conceptual study of manned lunar surface site p 316 N93-28029 Conceptual study of manned lunar surface site p 316 N93-28031 Manned lunar surface site: Conceptual study on pressurized lunar surface site p 316 N93-28032 Manned lunar surface site: Conceptual study on pressurized lunar surface site p 316 N93-28033 Lunar surface experiment system p 316 N93-28033 Lunar surface experiment system p 316 N93-28033 Lunar surface experiment system p 316 N93-28034 K KAZAKHSTAN Correlation between the lymph dynamics and venous pressure during short-term antiorthostatic effects p 325 A93-43070 KOREA, REPUBLIC OF Ethical concerns in the practice of military aviation	signal transduction in human epidermal A431 cells p 376 A93-49214 What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment [AIAA PAPER 93-3561] p 406 A93-52661 A comparative evaluation of three take-off performance monitor display types [AIAA PAPER 93-3608] p 406 A93-52669 False cue detection thresholds in flight simulation [AIAA PAPER 93-3578] p 407 A93-52674 Phadiatop: A screening test for inhalant allergy p 21 N93-11313 A spurious pop-out in visual search [AD-A256548] p 57 N93-14267 Decision making in a dynamic task environment: The effect of time pressure [AD-A256557] p 58 N93-14602 High-resolution contrast control on a video display: Method and calibration [AD-A256552] p 60 N93-15400 Occupant simulation as an aspect of flight safety research p 142 N93-19665 Engineering the visibility of small features on electronic flight displays p 144 N93-19758 A new concept for helmet mounted vision p 145 N93-19767 Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A body mass measurement device based on the oscillation principle p 221 N93-24400 Overview of cockpit technology research and development programs for improvement of the man/ machine interface: Review of the AGARD AVP Symposium held in Madrid, May 1992 An automated processing system for food frequency and nutrition knowledge questionnaire p 367 N93-32241 NEW ZEALAND The 'artful' decision maker - A framework model for aeronautical decision making p 56 A93-15662 Modern life at high temperatures p 74 A93-18003 NIGERIA Perfusion of the visual cortex during pressure breathing	ROMANIA Fractures of the vertebral column after ejection p 46 A93-15575 RUSSIA Principles of the organization of calcium metabolism p 7 A93-10124 The adrenalin/noradrenalin and the alpha/beta adrenoreceptor correlations in the myocardium and the adrenergic chronotropic and ionotropic reactions under extreme conditions and during adaptation p 1 A93-10125 Flavoproteins as natural prototypes of molecular electronic devices with photocontrolled conductivity p 1 A93-11199 The effect of low-intensity electromagnetic millimeter-wave radiation on the rat cardiovascular system p 2 A93-12861 The values of the skin-temperature gradients and their significance for thermoregulation p 9 A93-12862 The prospects for the improvement of medical monitoring of the health of flight personnel in a military unit p 10 A93-1296 Application of contrasting temperatures as a method of preadapting pilots to the conditions of a hot climate p 45 A93-15166 Reaction characteristics of several neuroregulating systems of cosmonauts after a 366-day-long space flight p 45 A93-15167 Contractile properties of the call triceps muscle in humans exposed to simulated weightlessness p 45 A93-15168 The quality of an operator's work on a flight simulator under conditions of thermal discomfort p 45 A93-15172 Pharmacological means of stimulating the work capacity of flight personnel engaged in stressful activity p 45 A93-15173 Subjective reactions and objective assessment of the auditory and ventilatory functions of the middle ear during
Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 402 A93-55328 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 398 A93-55329 Psychophysiological study on the effects of co-existence of lines for detecting dot target p 405 A93-55330 Optimal manipulator trajectories for space robots [AAS PAPER 91-669] Research of a free-flying telerobot. IV - Development of dual-arm manipulation system p 411 A93-56254 Research of a free-flying telerobot. V - Handling a target with multi-arms p 411 A93-56255 Telemanipulation experiment using predictive display p 411 A93-56256 Skill compensation and dynamic coupling of macro/smart effector system p 411 A93-56260 Study on environment control and life support technology p 149 N93-20413 Telescience testbedding for physiological experiments under hypobaric hypoxic conditions p 220 N93-24398 Japanese treefrog experiment onboard the Space Station Mir p 210 N93-24402 Conceptual study of manned lunar surface site p 316 N93-28032 Conceptual study of manned lunar surface site p 316 N93-28031 Manned lunar surface site: Conceptual study on pressurized lunar surface site: p 316 N93-28033 Lunar surface experiment system p 316 N93-28034 K KAZAKHSTAN Correlation between the lymph dynamics and venous pressure during short-term antiorthostatic effects p 325 A93-43070	signal transduction in human epidermal A431 cells p 376 A93-49214 What optical cues do pilots use to initiate the landing flare? Results of a piloted simulator experiment [AIAA PAPER 93-3561] p 406 A93-52661 A comparative evaluation of three take-off performance monitor display types [AIAA PAPER 93-3608] p 406 A93-52669 False cue detection thresholds in flight simulation [AIAA PAPER 93-3578] p 407 A93-52674 Phadiatop: A screening test for inhalant allergy p 21 N93-11313 A spurious pop-out in visual search [AD-A256548] p 57 N93-14267 Decision making in a dynamic task environment: The effect of time pressure [AD-A256557] p 58 N93-14602 High-resolution contrast control on a video display: Method and calibration [AD-A256552] p 60 N93-15400 Occupant simulation as an aspect of flight safety research p 142 N93-19665 Engineering the visibility of small features on electronic light displays p 144 N93-19758 A new concept for helmet mounted vision p 145 N93-19767 Two strikes against perfect phylogeny [RUU-CS-92-08] p 157 N93-20848 A body mass measurement device based on the oscillation principle p 221 N93-24400 Overview of cockpit technology research and development programs for improvement of the man/machine interface: Review of the AGARD AVP Symposium held in Madrid, May 1992 An automated processing system for food frequency and nutrition knowledge questionnaire p 367 N93-22241 NEW ZEALAND The "artful" decision maker - A framework model for aeronautical decision making p 56 A93-15662 NIGERIA	ROMANIA Fractures of the vertebral column after ejection p 46 A93-15575 RUSSIA Principles of the organization of calcium metabolism p 7 A93-10124 The adrenalin/noradrenalin and the alpha/beta adrenoreceptor correlations in the myocardium and the adrenergic chronotropic and ionotropic reactions under extreme conditions and during adaptation p 1 A93-10125 Flavoproteins as natural prototypes of molecular electronic devices with photocontrolled conductivity p 1 A93-11199 The effect of low-intensity electromagnetic millimeter-wave radiation on the rat cardiovascular system p 2 A93-12861 The values of the skin-temperature gradients and their significance for thermoregulation p 9 A93-12862 The prospects for the improvement of medical monitoring of the health of flight personnel in a military unit p 10 A93-12969 Application of contrasting temperatures as a method of preadapting pilots to the conditions of a hot climate p 45 A93-15166 Reaction characteristics of several neuroregulating systems of cosmonauts after a 366-day-long space flight Contractile properties of the calf triceps muscle in humans exposed to simulated weightlessness p 45 A93-15168 The quality of an operator's work on a flight simulator under conditions of, thermal discomfort p 45 A93-15173 Pharmacological means of stimulating the work capacity of flight personnel engaged in stressful activity p 45 A93-15173

Psychophysiological characteristics of the activity of flight personnel during training on VTOL aircraft

p 45 A93-15175 The role of dermorphin in the regulation of the winter hibernation processes in mammals p 38 A93-16748 Vagotropic effects of peptides isolated from the brain of hibernating susliks p 38 A93-16749 Effect of high temperature on the beta-adrenoreceptor activity and the catecholamine synthesis

p 39 A93-16750 Hypokinesia and weightlessness: Clinical and physiologic aspects

[ISBN 0-8236-2415-3] p 87 A93-17897 Intraslow bioelectric activity of the monkey's brain in the development of the high-pressure neural syndrome p 75 A93-18286

Functional state of the central nervous system of guinea pigs after a prolonged stay in artificial atmospheres with different gas compositions p 75 A93-18287 Control of breathing under conditions of altered atmospheric density during muscular work

p 89 A93-18288 The effect of elevated nitrogen pressure on motor activity and relationships among brain centers in monkeys

p 75 A93-18289 Motor activity of animals under elevated pressure

p 75 A93-18290 Local blood supply of the brain of guinea pigs developing p 76 A93-18293 the high-pressure neural syndrome The state of brain oxygenation in guinea pigs breathing high-density gas mixtures p 76 A93-18294

Distribution of oxygen tension in pial arterioles of rats under normobatic hyperoxia p 76 A93-18295 Polyphosphoinositide response to various

neurotransmitters after an exposure to a helium-oxygen atmosphere at a high pressure p 76 A93-18296 Maximal lung ventilation and forced expiration rate under hyperbaria p 76 A93-18297 Parameters of external breathing in an excess-pressure

A93-18298 An analysis of the respiratory muscle fatigue under resistive loading when breathing gas mixtures containing different amounts of oxygen p 76 A93-18299 different amounts of oxygen

Electrophysiological and ultrastructural aspects of the effect of high-pressure oxygen on the sensomotor cortex of the rat brain

Gas composition in the blood of rabbits exposed to a high-pressure atmosphere under conditions spontaneous and forced ventilation p 77 A93-18301

A device for the prolonged restraint of primates in osed-space conditions p 77 A93-18302 closed-space conditions K.E. Tsiolkovsky and biomedical problems connected with space exploration: Lectures Devoted to K.E.

Tsiolkovsky's Ideas, 25th, Kaluga, Russia, Sept. 11-14, 1990. Transactions p 90 A93-18406 K.E. Tsiolkovsky on the problem of human survival in

extreme environments (On the earth and in space)
p 77 A93-18407

Development of K.E. Tsiolkovsky's ideas on the interaction between space, nature, and man p 90 A93-18408

K.E. Tsiolkovsky on the role of the human factor in the problem of space tlight safety p 100 A93-18409 Approaches to solving the problem of decompression safety of cosmonauts on their flights to Mars

p 90 A93-18410 Problems of medical support during extravehicular activity during flights to Mars p 90 A93-18411
Physical fitness as a criterion of readiness for p 98 A93-18412

K.E. Tsiolkovsky on individual time perception and some characteristics of intuitive perception of the properties of time at different levels of motor activity and health

p 98 A93-18413 Consequences of a basic model of external-information perception p 98 A93-18414

The efficiency of a prophylactic-rehabilitational treatment of civil-aviation flight crews p 91 A93-18415 Preclinical cardiovascular neurological occupation-related pathological symptoms in helicopter p 91 A93-18416 pilots

Psychophysiological studies of acute hypoxic hypoxia n 91 A93-18417

Effects of possible pollution sources of the atmosphere of a closed ecosystem on the growth of p 101 A93-18418 microorganisms Engineering and technical support of experiments on board the Cosmos-2044 biosatellite p 77 A93-18419

Dynamics of normalization of some behavioral and neurochemical disturbances in rats caused by the deprivation of the paradoxical sleep stage

p 111 A93-23074 Study of the functioning of the central and the peripheral contours of the thermoregulation system using a

thermophysical model of the rabbit body p 111 A93-23075

Psychophysiological factors which impair the professional reliability of a pilot in emergency situations A93-23150 p 129

Effect of prolonged antiorthostatic bed rest hypokinesia on functional properties of the neuromuscular system in p 116 A93-23151

Formation of the hypokinetic syndrome in the digestive system under conditions of weightlessness

p 119 A93-25600 Investigation of the character of changes in the 'central' temperature of the body in cold environment, using a rabbit-body thermoregulation model p 112 A93-25651

The rhythm of heart activity and arrhythmia in long-term space flights p 119 A93-25652 Illusions of visual-target motion caused by electrical

p 119 A93-25653 vestibular stimuli A method for the theoretical calculation of the parameters of single-stage decompression with equal probability of safety

p 160 A93-26832 The role of rheoencephalography in the practice of aviation medicine p 160 A93-27649 The problem of oxygen regimen in extreme conditions

p 160 A93-27685 Some biochemical and functional characteristics of body state during multihour operator activity under extreme conditions p 161 A93-27686

A method of multivariate analysis of data in the study of the effects of space flight factors on the rat brain neuror structure p 155 A93-28727

Health in space - And on Earth p 156 A93-28738 Oxygen tension and water-soluble products of lipid peroxidation in blood of volunteers in hypobaric hyperoxial p 169 A93-28751 Effect of exercise and bisphosphonate on mineral

balance and bone density during 360 day antiorthostatic p 170 A93-28760 hypokinesia Estimation of the number of operators and their

p 193 A93-29696 efficiency in flight vehicle control Changes in the osmolality, monovalent cation concentration, and protein structure of blood plasma under extreme conditions p 200 A93-31188

On a possible role of carbon dioxide in the genesis of ne hyperbaric neural syndrome p 200 A93-31190 Investigation of fluid-electrolyte metabolism and its the hyperbaric neural syndrome hormonal regulation during the second joint Soviet-French space mission p 247 A93-35207 Cardiac bioelectric activity in healthy men during a

370-day head-down tilt experiment p 247 A93-35208 of hemodynamics Investigation sympatheticoadrenal system activity in air traffic controllers during their work p 247 A93-35209

Lipid peroxidation and the antioxidant defense system in rats after a 13-day flight on the Cosmos-1887 biosatellite p 239 A93-35210 Spontaneous and evoked activity of neurons in the

parietal associative cortex of cats during motion sickness p 239 A93-35211 Hematologic status of rats born and grown

p 239 A93-35212 hypergravity environment A comparative analysis of the bone marrow cell aposition in rats following a long-duration continuous or interrupted exposure to a hypogeomagnetic field

p 240 A93-35213 Human biorhythms following interregional travel (with reference to Novosibirsk-Vladivostok flights)

p 247 A93-35214 A free-fall flip-over response in rats after the flight

onboard the Cosmos-936 biosatellite p 240 A93-35215 The role of ultraviolet radiation and vitamin-D metabolism in medical care during space flights p 247 A93-35216 Pharmacological detense of the brain during radiation

damage - Some arguments p 240 A93-35217 The character of spontaneous oculomotor activity in weightlessness and during readaptation

p 248 A93-35219 Adaptation of young pilots to new conditions of their work (Social-psychological aspects) p 256 A93-35220 Hemodynamic status of humans during a graded p 248 A93-35221

Informative value of the rerespiration method for evaluating the functional resources of the cardiorespiratory system during the simulation of certain flight factors

D 248 A93-35222 Equivalent dose of cosmic rays at representative points p 248 A93-35223 of human-body models Features of the effect of hypokinesia on cardiac activity in rats with high and low spontaneous motor activity

p 240 A93-35224 Accumulation of calcium ions in the myocardial arcoplasmic reticulum of restrained rats exposed to a p 240 A93-35225 pulsed electromagnetic field Significance of a comparison of results of caloric and p 248 A93-35226 vestibulometric rotation tests Age and length of service of flight personnel in the case p 248 A93-35227 of chronic diseases

Validation of the use of the helium-neon laser in the medical rehabilitation of patients with atrophy

p 248 A93-35228 Effect of an attenuated geomagnetic field on the cellular composition of the epithelial-spermogenous layer of rat p 240 A93-35229

Radiation conditions onboard passenger aircraft

p 249 A93-35230 Some features characterizing the supply of astronauts with vitamins C, B1, B2, and B6 during nounshment from canned-food rations on long-term space flights

p 249 A93-35231

Central neurophysiological and neurochemical vomiting mechanisms (Review of the literature)

p 240 A93-35232 Psychophysiological principles of flight training for ctions in nonroutine situations p 256 A93-35233 actions in nonroutine situations Data bank establishment principles as applied to the problem of physiological norms in space medicine

p 249 A93-35234

Altitude stress and cosmonaut training

p 262 A93-35235 Methodology for clinical testing of antiradiation means intended for manned space flight conditions

p 249 A93-35236 Microflora of cabins of manned space objects and the problem of biological damage to the structural materials p 262 A93-35237 used in them

Functional state of the cardiovascular system of the cosmonauts of the sixth primary mission on the Mir p 249 A93-35238

Ultrasonic location of gas bubbles in the vascular bed of a person working in a space suit p 262 A93-35239 Morphological analysis of the hepatic structures in experimental animals after infrasonic exposure

p 240 A93-35240 The asthenic syndrome and the dynamics of mental-work capacity p 256 The Inkubator-2 complex for studying the embryonic and

postembryonic development of birds in conditions of p 241 A93-35242 weightlessness Protein composition of the blood plasma of cosmonauts

p 249 A93-35243 after lengthy orbital flights Efficiency of using iterative hypoxic hypercapnic stimuli for enhancing cardiorespiratory reserves under the effect

of radial accelerations p 249 A93-35244 Autorosette formation in the peripheral blood of people with lengthy limitations of motor activity

p 250 A93-35245 Turning-over reaction during free fall in labyrinthectomized rats after a flight on the Cosmos 936 biosatellite p 241 A93-35246

Microwaves and the visual analyzer

p 250 A93-35247 Ecological-morphological features of the growth and distribution of cultures of unicellular organisms in a gravitational field p 241 A93-35248

Control of the development of occupationally important qualities with the aim of improving flight-personnel p 257 A93-35249

Age-related changes in hemoglobin and erythrocyte p 250 A93-35250 levels Psychosomatic status and flying skill during geomagnetic p 257 A93-35251

disturbances Features of an ethanol effect in operators with different states of skin tissue basophils p 250 A93-35252 Diurnal rhythmicity of human orthostatic stability

p 250 A93-35253 Metabolism in cosmonauts - Results of biochemical blood analyses for crew members of seven primary missions on the Mir orbital station p 250 A93-35254

Effect of stays at medium-mountain altitude on the maintenance of the good health and high physical work capacity of cosmonauts over a prolonged period of time p 250 A93-35255

Vestibulo-oculomotor responses under conditions of p 251 A93-35256 immersion hypokinesia

The state of cardiac activity control in humans during cyclic changes of barometric pressure in a hermetic p 251 A93-35257 chamber

Some indices of humoral immunity in Rhesus monkeys under the effect of extreme space flight factors

p 241 A93-35258 Hemodynamics in monkeys during antiorthostatic

hypokinesia at angles of -6 and -20 deg p 241 A93-35259

Healing of fractured bone in rats during readaptation following 14-day suspension p 241 A93-35260 Dynamics of the central and peripheral circulation of

active rats on the first day of antiorthostatic hypokinesia (The role of training) p 242 A93-35261 Combined effect of head-down tilt and gamma rays on

the higher nervous activity of rats p 242 A93-35262 Early andrological effects in rats under the combined effect of irradiation and vibration p 242 A93-35263 FOREIGN TECHNOLOGY INDEX

UNITED KINGDOM Interlabyrinth otolithic asymmetry under normal JPRS report: Science and technology. Central Eurasia: Recent lessons on the safety and effectiveness of conditions and after the effect of a gravity change Life sciences malaria chemoprophylaxis in a non-immune population p 242 A93-35264 JPRS-ULS-92-025 | p 244 N93-25405 p 19 N93-11307 Manipulator system for module redocking on the Mir JPRS report: Science and technology. Central Eurasia: Future approaches to vaccine development single-dose **Orbital Complex** p 263 A93-35534 Life sciences vaccines using controlled-release delivery systems Peroxidative oxidation of lipids and chromosome [JPRS-ULS-92-020] p 20 N93-11310 aberrations in mice after repeated exposures to a JPRS report: Science and technology. Central Eurasia: helium-oxygen respiration mixture under hyperbanc Life sciences T IJPRS-ULS-92-0221 p 253 N93-25407 conditions p 243 A93-35672 Cryoprotective properties of water in the earth JPRS report: Science and technology. Central Eurasia: Life sciences cryolithosphere and its role in exobiology TURKEY [JPRS-ULS-93-005] p 276 N93-28683 p 269 A93-36558 An assessment of Turkish Air Force pilots' anxiety and JPRS report: Science and technology. Central Eurasia: Changes in the brain blood flow and respiration during depression levels p 23 A93-10334 Life sciences psychoemotional stress Assessment of morale in Turkish Air Force pilots with p 252 A93-36723 JPRS-ULS-92-027 p 276 N93-28684 Structural and cytochemical signs of the development two clinical psychological tests p 133 N93-19660 Gremlins: A dozen hazardous thought and behavior deadaptation, as determined from S p 134 N93-19709 p 252 A93-36724 characteristics patterns as risk factors Effectiveness of birthdate biorhythm theory on flight New aspects of using hyperbaric oxygenation in aviation p 127 N93-19710 medicine p 252 A93-36742 SAUDI ARABIA Occupational health problems in aviation medicine Case report - Chronic sub-dural hematoma following high-speed ejection p 252 A93-36743 p 282 A93-41171 U Prefabricated foldable lunar base modular systems for Diagnostics and prophylaxis of adverse psychological p 106 N93-17444 habitats, offices, and laboratories states in marine aviation flight personnel UKRAINE SINGAPORE p 257 A93-36744 Effects of a 1-yr stay at altitude on ventilation, letabolism, and work capacity p 92 A93-20028 Drugs for sustaining the work capacity of aircraft Incorporating robot vision in tele-autonomous systems metabolism, and work capacity p 184 A93-27031 personnel during extreme emotional stress Characteristics of the effect of inert gases on in vivo p 253 A93-36745 p 112 A93-23152 tissue respiration Oxygen regime in the frontal cerebral cortex of monkeys Tobacco and health of the pilot Effect of low-frequency vibration on the activity of dehydrogenases in neurones of the nucleus vestibularis IETN-93-936931 p 217 N93-23414 during a two-week space flight p 272 A93-40773 Trial of emergency ration of the Spanish Air Force New technology for the analysis of the results of an p 242 A93-35670 ultrasound experiment performed in aviation-medicine p 368 N93-32247 The state of the endocrine system of rats of different Cardiovascular Risk Factors (CVRF) in Spanish pilots medical examination p 279 A93-40774 age under conditions of immobilization stress and biomos Functions simulation model of integrated regenerable with coronary artery disease demonstrated by angiographic studies p 362 N93-32253 p 242 A93-35671 administration life support system Ion transport across membranes under exposure of the Objective improvements obtained by control of diet and **ISAE PAPER 9212011** p 295 A93-41377 organism to ionizing radiation physical training in Spanish Air Force fighter pilots Effect of adaptation to hypoxia on the contractile activity p 243 A93-35679 |ISBN 5-12-001601-4| of fast and slow muscles in the rat p 324 A93-43035
Adjustable temperature level of a physiological p 369 N93-32258 Investigation of individual and typological features of an Survey of smoking habits in the Spanish Air Force operator's nervous system under different work regimes p 370 N93-32262 thermostat and the feasibility of its precise maintenance p 339 A93-43024 SRI LANKA p 324 A93-43036 Mechanisms of the antihypoxic effect of taurine Chiral symmetry breaking in nonlinear autocatalytic Effect of hypoxic hypoxia on the immune response and p 325 A93-43073 reactions and the effect of external noise some factors of nonspecific resistance of human and Distribution of functions in a man-machine control p 269 A93-36564 animal organisms p 325 A93-43074 p 364 A93-45687 system of a certain type SWEDEN Roentgenophosphene as an indicator of the radiation A method for predicting the work load of a flight engineer excitability of the central nervous system Reduced voluntary non-visual suppression of the engaged in counteracting failures of functional systems vestibulo-ocular reflex gain during nitrous oxide narcosis p 364 A93-45688 p 325 A93-43078 of a transport aircraft p 7 A93-10329 The efficiency of thermoregulatory responses in the the Changes in central hemodynamics under Why are hydrothermal systems proposed as plausible antiorthostasis in humans with different blood circulation cooling of the organism p 325 A93-43136 environments for the origin of life? p 73 A93-18001 Hydrothermal systems - Their varieties, dynamics, and Some characteristics of the etiopathogenesis of hearing types and physical training levels p 359 A93-46967 p 359 A93-45691 loss in aircraft personnel UNITED KINGDOM A modified method for investigating gastric secretion aviation medical examination p 359 A93-45692 p 73 A93-18002 p 74 A93-18010 suitability for prebiotic chemistry To the stars with the cytoskeleton? p 1 A93-11198 Future research in aviation medical examination Training for avionics evaluation Up/down in (im)possible flight attitude indicators - Some The human EEG correlates during many-sided peripheral I AIAA PAPER 92-4068 I p 24 A93-11254 effects of colour, shape and pattern p 185 A93-27128 Human factors on advanced flight decks; Proceedings exposure to an alternating magnetic field The binding and reactions of nucleotides and p 363 A93-46966 of the Conference, London, United Kingdom, Mar. 14, polynucleotides on iron oxide hydroxide polymorphs Electromyographic patterns of the thermoregulatory 1991 p 325 A93-43795 activity of motor units during cooling of the organism |ISBN 0-903409-85-2| p 29 A93-13408 Intracellular targeting of the Yersinia YopE cytotoxin in p 360 A93-46968 Airline training for advanced technology cockpits mammalian cells induces actin microfilament disruption p 24 A93-13411 Changes in the phospholipid and cholesterol content [FOA-B-40420-4.4] p 275 N93-27989 of rat tissues during adaptation to high altitude at different p 29 A93-13413 Keeping the pilot in the loop Plasmid encoded virulence of Yersinia p 358 A93-47100 environmental temperatures Vision modelling applications for display optimisation [FOA-B-40419-4.4] p 275 N93-28199 Flavine-dependent processes in model prebiological ystems p 372 A93-47125 p 29 A93-13414 Characterization and classification of strains of Advanced civil airliner cockpit research at RAE Francisella tularensis isolated in the central Asian focus p 29 A93-13416 Role of the central nervous system in the control of Redford of the Soviet Union and in Japan hybernation Predictable eye-head coordination during driving p 378 A93-51025 p 275 N93-28200 [FOA-B-40421-4.4] Changes in the intensity of free-radical reactions in the p 57 A93-16373 Use of RNA hybridization in the diagnosis of a case of organs of rats under hypokinetic stress, protected by the Mineral theories of the origin of life and an iron sulfide ulceroglandular tularemia p 74 A93-18009 delta-sleep-inducing peptide and its tyrosine-containing example IFOA-B-40422-4.41 p 275 N93-28212 p 378 A93-51101 The effects of chronic hypoxia on human auditory system cytotoxins Analysis of individual differences between psychological Micro-organisms, and radioactive p 89 A93-18041 sensitivity preparation: Risks at rescue operations in hospital Training analysis for the European Fighter Aircraft reactions of humans under combined hypoxic stress p 98 A93-18769 voyage into the unknown' p 388 A93-51115 p 359 N93-32423 1FOA-A-40065-4 5 I Immune and physiological mechanisms of hypoxic Examination of the relationship between changes in the SWITZERLAND demand for civil aviation services and the volume of flight p 384 A93-51116 Psychophysiological stress research - Methodology and simulator training Regulation of the carbohydrate metabolism in humans p 98 A93-18773 sults of an investigation involving air traffic controllers residing in the North Advances in training technology and the role of the p 384 A93-51117 p 98 A93-18775 Main medical results of extended flights on Space IISBN-3-258-04585-21 p 97 A93-17971 p 386 A93-52401 Protein absorption and energy digestibility at high The effects of structural failure on injuries sustained in Station Mir in 1986-1990 The limits of human impact acceleration tolerance p 115 A93-21683 the M1 Boeing 737 disaster, January 1989 altitude p 118 A93-25201 p 400 A93-52692 [AIAA PAPER 93-3572] Effect of head-down tilt bedrest (10 days) on lymphocyte Computerized teaching of pilots to spatial orientation p 163 A93-28684 The effects of brace position on injuries sustained in the M1 Boeing 737/400 disaster, January 1989 flight tasks p 404 A93-52694 Cultivation of Hamster Kidney cells in a Dynamic Cell p 118 A93-25202 Workload or situational awareness? TLX vs. SART for Linear tetrapyrroles (phycobilins) Culture System in space (Spacelab IML-1 mission) p 398 A93-53350 prebiological system p 200 A93-32071 Ozone - A new aspect of its effect on microorganisms aerospace systems design evaluation The fast rotating clinostat - A history of its use in p 175 A93-27139 p 398 A93-54971 gravitational biology and a comparison of ground-based Hypobaric hypoxia as a correction and rehabilitation Colour head-up displays - Help or hindrance? p 376 A93-49212 and flight experiment results method in aviation medicine p 402 A93-55332 p 187 A93-27154 p 14 N93-11284 Space flight and immune system The effect of low blood alcohol levels on pilot performance in a series of simulated approach and landing Dynamics of electroencephalographic indices during Hepatitis A and Hepatitis B: Risks compared to other acute hypoxia p 402 A93-55333 vaccine preventable diseases and immunization The problem of the pilot's professional reliability p 179 A93-27453 p 410 A93-55334 recommendations p 15 N93-11288 Assessing pilot workload - Why measure heart rate, HRV JPRS report: Science and technology. Central Eurasia: HIV infection in the nineties p 15 N93-11290 p 168 A93-28741 and respiration?

Communicable diseases: A major burden of morbidity

p 18 N93-11300

and mortality

Life sciences

IJPRS-ULS-92-0241

p 40 N93-13033

p 170 A93-28757

Electroencephalogram epileptiform abnormalities in

candidates for aircrew training

USSR FOREIGN TECHNOLOGY INDEX

The advent of helmet-mounted de		
aircraft cockpit - An operator's view		the combat
Helmet mounted display with multi	p 227	A93-30056
	p 227	A93-30057
The realities of using visually couple applications	p 228	A93-30063
A review of muscle atrophy in mi		
prolonged bed rest		A93-30771
The effects of prolonged weightle gravity environments on human surv	ssness a ival	and reduced
•	p 214	A93-30773
Looks can kill	p 231	A93-31626
Compensating lags in head-coupled		s using head
position prediction and image deflect	-	
Military aircrew head support syste	p 231 em	A93-31782
Peripheral arterial thrombosis rela	p 231	A93-31944
airline flights - Another manifestation		
syndrome	p 215	A93-32775
Hypertension and the probability		
event over a defined period - Impact		
•	p 215	A93-32777
Cardiac pacing and aviation	p 215	A93-32778
Unconsciousness in flight and its p	oreventio	
	p 217	A93-32787
Roles of water molecules in bacte		
Cognitive predictors of delices		A93-36555
Cognitive predictors of vigilance Life Support and Habitability Man	p 287	A93-40771
[SAE PAPER 921338]		A93-41497
Helmet slippage during visual trac		
voluntary head movements	p 389	A93-49223
Perceptual scaling of whole-body		
oscillatory motion	p 379	A93-49225
Respiratory changes and structur		ep in young
high-altitude dwellers in the Andes of		
		A93-49569
Control of infection in an internation		
NO 1	p 407	A93-52867
Virtual landings	p 410	A93-54868
Adaptation to nauseogenic mo		null and its
application in the treatment of airsic	p 404	A93-55947
A model for the prebiotic synthes		
throws light on the origin of the gr		
observed chirality of life	p 412	A93-56000
	rmation	processing
components of the brain		
[RSRE-MEMO-4350]	p 25	N93-10979
Design guide for the ergonomic a	aspects o	of helicopter
crew seating [ISVR-TR-209]	p 65	N93-13464
Life systems for a lunar base	p 05	
	0.66	
Autoradiographic distribution	p 66 and	N93-13992
Autoradiographic distribution pharmacological characteristics of de	and	N93-13992 applied
Autoradiographic distribution pharmacological characteristics of de related antitissue/anticonvulsant	and extrometi	N93-13992 applied
pharmacological characteristics of de related antitissue/anticonvulsant analogs	and extrometl drugs	N93-13992 applied norphan and
pharmacological characteristics of di related antitissue/anticonvulsant analogs [AD-A255607]	and extrometi drugs p 54	N93-13992 applied norphan and and novel N93-15009
pharmacological characteristics of de related antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation of	and extrometi drugs p 54 of the Ke	N93-13992 applied norphan and and novel N93-15009 egworth air
pharmacological characteristics of de related antitissue/anticonvulsant analogs AD-A255607 Occupant kinematics simulation de accident	and extrometi drugs p 54 of the Ko p 142	N93-13992 applied norphan and and novel N93-15009 egworth air N93-19662
pharmacological characteristics of di related antitissue/anticonvulsant analogs AD-A255607 Occupant kinematics simulation di accident Can injury scoring techniques	and extrometh drugs p 54 of the Ki p 142 provide	N93-13992 applied norphan and and novel N93-15009 egworth air N93-19662 additional
pharmacological characteristics of di- related antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation di- accident Can injury scoring techniques information for crash investigators?	and extrometl drugs p 54 of the Ko p 142 provide p 125	N93-13992 applied norphan and and novel N93-15009 egworth air N93-19662 e additional N93-19663
pharmacological characteristics of di related antitissue/anticonvulsant analogs AD-A255607 Occupant kinematics simulation di accident Can injury scoring techniques	and extrometl drugs p 54 of the Ko p 142 provide p 125 nism of i	N93-13992 applied norphan and and novel N93-15009 egworth air N93-19662 additional N93-19663 injury to the
pharmacological characteristics of di- related antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation di- accident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechal lower limb in an impact aircraft accidents.	and extrometl drugs p 54 of the Kr p 142 provide p 125 nism of ident? p 125	N93-13992 applied norphan and and novel N93-15009 egworth air N93-19662 e additional N93-19663 injury to the
pharmacological characteristics of di- related antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation of accident Can injury scoring techniques information for crash investigators? Is axial loading a primary mecha lower limb in an impact aircraft accidents.	and extrometl drugs p 54 of the Kr p 142 provide p 125 nism of ident? p 125 simulatir	N93-13992 applied norphan and and novel N93-15009 egworth air N93-19662 e additional N93-19663 injury to the
pharmacological characteristics of di- related antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation di- accident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechal lower limb in an impact aircraft accidents.	and extrometh drugs p 54 of the Kr p 142 provide p 125 nism of ident? p 125 simulatir YNA3D	N93-13992 applied norphan and and novel N93-15009 egworth air N93-19662 a additional N93-19663 injury to the N93-19664 ng occupant
pharmacological characteristics of direlated antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation disciplination of accident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechalower limb in an impact aircraft accidence of the computer aided methods for response to impact using OASYS Disciplinations.	and extromett drugs p 54 pf the Ki p 142 provide p 125 nism of ident? p 125 simulatir YNA3D p 142	N93-13992 applied orophan and and novel N93-15009 egworth air N93-19663 additional N93-19663 injury to the N93-19664 ng occupant N93-19666
pharmacological characteristics of di- related antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation of accident Can injury scoring techniques information for crash investigators? Is axial loading a primary mecha lower limb in an impact aircraft accidents.	and extromett drugs p 54 of the Ki p 142 provide p 125 of the	N93-13992 applied norphan and novel N93-15009 egworth air N93-19662 additional N93-19663 injury to the N93-19664 ag occupant N93-19666 est dummies
pharmacological characteristics of direlated antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation discipled accident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechalower limb in an impact aircraft accident Computer aided methods for response to impact using OASYS D	and extromett drugs p 54 of the Ki p 142 provide p 125 nism of dent? p 125 simulatir YNA3D p 142 to crash te	N93-13992 applied norphan and and novel N93-15009 agworth air N93-19662 and ditional n93-19663 injury to the N93-19664 ag occupant N93-19666 ast dummies N93-19669
pharmacological characteristics of direlated antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation accident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechalower limb in an impact aircraft accident Computer aided methods for response to impact using OASYS D The design and use of automotive The application of Hybrid 3 du	and extromett drugs p 54 of the K, p 142 provide p 125 nism of ident? p 125 simulatir YNA3D p 142 c crash te p 142 mmy to	N93-13992 applied orphan and and novel N93-15009 egworth air N93-19662 additional N93-19663 injury to the N93-19664 up occupant N93-19666 est dummies N93-19669 the impact
pharmacological characteristics of direlated antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation of accident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechalower limb in an impact aircraft accident. Computer aided methods for response to impact using OASYS D The design and use of automotive. The application of Hybrid 3 du assessment of a free-fall lifeboat.	and extromett drugs p 54 of the Ki p 142 provide p 125 sismulatir YNA3D p 142 e crash te p 142 mmy to p 143	N93-13992 applied norphan and novel N93-15009 egworth air N93-19662 additional N93-19664 no occupant N93-19664 no occupant N93-19666 est dummies N93-19666 to impact N93-19667
pharmacological characteristics of direlated antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation discident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechalower limb in an impact aircraft accident Computer aided methods for response to impact using OASYS D The design and use of automotive The application of Hybrid 3 du assessment of a free-fall lifeboat A new instrumentation system	and extromet! drugs p 54 of the K-p 142 provide p 125 nism of ident? p 125 simulatir YNA3D p 142 crash te p 142 mmy to p 143 for me	N93-13992 applied norphan and novel N93-15009 egworth air N93-19662 es additional N93-19664 go occupant N93-19666 est dummies N93-19669 the impact N93-19671 asuring the
pharmacological characteristics of direlated antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation of accident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechalower limb in an impact aircraft accident. Computer aided methods for response to impact using OASYS D The design and use of automotive. The application of Hybrid 3 du assessment of a free-fall lifeboat.	and extromett drugs p 54 of the Kr p 142 provide p 125 of the Kr p 125 of the Kr p 142 provide p 142 of the Kr p 142 of the Kr p 142 of the	N93-13992 applied norphan and novel N93-15009 egworth air N93-19662 es additional N93-19664 go occupant N93-19666 est dummies N93-19669 the impact N93-19671 asuring the
pharmacological characteristics of direlated antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation accident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechalower limb in an impact aircraft accident Computer aided methods for response to impact using OASYS D The design and use of automotive. The application of Hybrid 3 duassessment of a free-fall lifeboat A new instrumentation system dynamic response of the human hea	and drugs p 54 of the K for p 142 provide p 125 nism of dent? p 142 provide p 125 simulatir YNA3D p 142 e crash te p 142 mmy to p 143 for me d/neck d p 143 survey	N93-13992 applied orphan and and novel N93-15009 egworth air N93-1962 additional N93-19663 injury to the N93-19664 dig occupant N93-19669 the impact N93-19669 the impact N93-1967 assuring the uring impact N93-1967 (O UK Army)
pharmacological characteristics of direlated antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation discipled accident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechalower limb in an impact aircraft accident Computer aided methods for cresponse to impact using OASYS D. The design and use of automotive. The application of Hybrid 3 duassessment of a free-fall lifeboat A new instrumentation system dynamic response of the human hea acceleration Disorientation and flight safety: A aircrew	and extrometh drugs p 54 of the K. p 142 provide p 125 nism of ident? p 125 simulatir YNA3D p 142 e crash te p 143 for me d/neck d p 143 survey p 133	N93-13992 applied on phan and and novel N93-15009 agworth air N93-19662 additional N93-19663 injury to the N93-19664 ag occupant N93-19669 the impact N93-19679 the impact N93-19670 asuring the uring impact N93-19670 to UK Army N93-19680
pharmacological characteristics of direlated antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation of accident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechalower limb in an impact aircraft accident Computer aided methods for response to impact using OASYS D The design and use of automotive The application of Hybrid 3 du assessment of a free-fall lifeboat A new instrumentation system dynamic response of the human hea acceleration Disorientation and flight safety: A	and extrometh drugs p 54 of the K. p 142 provide p 125 nism of ident? p 125 simulatir YNA3D p 142 crash te p 142 crash te p 143 for me d/neck d p 143 survey p 143	N93-13992 applied norphan and and novel N93-15009 agworth air N93-19662 additional N93-19663 injury to the N93-19664 ag occupant N93-19666 ast dummies N93-19660 the impact N93-19671 asuring the uring impact N93-19672 of UK Army N93-19680 ockpit
pharmacological characteristics of direlated antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation of accident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechalower limb in an impact aircraft accident Computer aided methods for response to impact using OASYS D The design and use of automotive The application of Hybrid 3 du assessment of a free-fall lifeboat A new instrumentation system dynamic response of the human hea acceleration Disorientation and flight safety: A aircrew Aircrew acceptance of automation	and extromett drugs p 54 of the K, p 142 provide p 125 nism of ident? p 125 simulatir YNA3D p 142 of crash te p 142 mmy to p 143 for me d/neck d p 143 survey p 133 in the c p 144	N93-13992 applied norphan and and novel N93-15009 agworth air N93-19662 additional N93-19664 ag occupant N93-19666 ast dummies N93-19666 ast dummies N93-19667 asuring the impact N93-19671 asuring the impact N93-19670 of UK Army N93-19680 occipit N93-19761
pharmacological characteristics of direlated antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation of accident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechalower limb in an impact aircraft accident Computer aided methods for response to impact using OASYS D The design and use of automotive The application of Hybrid 3 du assessment of a free-fall lifeboat A new instrumentation system dynamic response of the human hea acceleration Disorientation and flight safety: A aircrew Aircrew acceptance of automation The MOD (UK) integrated helmet te	and extromett drugs p 54 of the Kick p 142 provide p 125 nism of ident? p 152 simulatir YNA3D p 142 e crash te p 143 for me d/neck d p 143 in the c p 144 echnical dechnical dechnical decoration.	N93-13992 applied orphan and and novel N93-15009 agworth air N93-19662 additional N93-19663 injury to the N93-19664 ag occupant N93-19666 set dummies N93-19669 the impact N93-19671 assuring the uring impact N93-19680 ockpit lemonstrator
pharmacological characteristics of direlated antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation discipled antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation discipled antitised and cacident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechalower limb in an impact aircraft accidence of the propose to impact using OASYS Discipled and use of automotive. The design and use of automotive assessment of a free-fall lifeboat. A new instrumentation system dynamic response of the human hea acceleration. Discorientation and flight safety: A aircrew acceptance of automation. The MOD (UK) integrated helmet to programme.	and extromett drugs p 54 of the K, p 142 provide p 125 nism of ident? p 125 simulatir YNA3D p 142 crash te p 142 crash te p 143 for me d /neck d p 143 survey p 133 in the c p 144 echnical e	N93-13992 applied orophan and and novel N93-15009 agworth air N93-19662 additional N93-19663 injury to the N93-19664 ag occupant N93-19666 ast dummies N93-19671 asuring the uring impact N93-19671 asuring the uring impact N93-19680 ockpit N93-19761 lemonstrator N93-19769
pharmacological characteristics of direlated antitissue/anticonvulsant analogs (AD-A255607) Occupant kinematics simulation of accident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechalower limb in an impact aircraft accidence of the computer aided methods for response to impact using OASYS D. The design and use of automotive the application of Hybrid 3 du assessment of a free-fall lifeboat A new instrumentation system dynamic response of the human hea acceleration Disorientation and flight safety: A aircrew acceptance of automation the MOD (UK) integrated hetmet to programme Mutti-function visor	and extrometh drugs p 54 of the K. p 142 provide p 125 nism of ident? p 129 simulatir YNA3D p 142 crash te p 142 crash to p 143 for me dd/neck de p 143 survey p 133 n in the c p 144 echnical 6 p 146	N93-13992 applied orophan and and novel N93-15009 egworth air N93-19662 additional N93-19663 injury to the N93-19664 ag occupant N93-19666 est dummies N93-19661 the impact N93-19671 asuring the uring impact N93-19672 of UK Army N93-19761 lemonstrator N93-19769 N93-19769 N93-19770
pharmacological characteristics of direlated antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation discipled antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation discipled antitised and cacident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechalower limb in an impact aircraft accidence of the propose to impact using OASYS Discipled and use of automotive. The design and use of automotive assessment of a free-fall lifeboat. A new instrumentation system dynamic response of the human hea acceleration. Discorientation and flight safety: A aircrew acceptance of automation. The MOD (UK) integrated helmet to programme.	and extromett drugs p 54 of the K, p 142 provide p 125 of ent? p 155 simulatir YNA3D p 142 e crash te p 142 mmy to p 143 for me d/neck d p 143 survey p 133 in the c p 144 echnical d p 145 p 146 he cockp	ny3-13992 applied on phan and and novel ny3-15009 agworth air ny3-1962 additional ny3-19663 injury to the ny3-19663 injury to the ny3-19669 the impact ny3-19669 the impact ny3-19671 assuring the uring impact ny3-19670 duk Army ny3-19680 occkpit ny3-19761 demonstrator ny3-19770 it
pharmacological characteristics of direlated antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation of accident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechalower limb in an impact aircraft accident Computer aided methods for response to impact using OASYS D The design and use of automotive The application of Hybrid 3 duassessment of a free-fall lifeboat A new instrumentation system dynamic response of the human hea acceleration Disorientation and flight safety: A aircrew Aircrew acceptance of automation The MOD (UK) integrated hetmet to programme Multi-function visor Management of avionics data in the safety in the safety of the s	and extrometh drugs p 54 of the K. p 142 provide p 125 nism of ident? p 125 simulatir YNA3D p 142 c crash te p 143 for me d/neck d p 143 survey p 133 nin the c p 144 cchnical d p 145 p 146 he cockph	N93-13992 applied on phan and and novel N93-15009 agworth air N93-19662 a additional N93-19663 injury to the N93-19664 ag occupant N93-19666 ast dummies N93-19669 the impact N93-19670 asuring the uring impact N93-19670 tUK Army N93-19680 ockpit lemonstrator N93-19769 N93-19770 itt
pharmacological characteristics of direlated antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation decident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechalower limb in an impact aircraft accident Computer aided methods for stresponse to impact using OASYS D. The design and use of automotive. The application of Hybrid 3 duassessment of a free-fall lifeboat A new instrumentation system dynamic response of the human hea acceleration Disorientation and flight safety: A aircrew Aircrew acceptance of automation The MOD (UK) integrated helmet te programme Mutti-function visor Management of avionics data in the	and extrometh drugs p 54 of the K. p 142 provide p 125 nism of ident? p 125 simulatir YNA3D p 142 crash te p 142 crash te p 143 for me dd/neck de p 143 survey p 133 n in the c p 144 echnical 6 p 145 p 146 he cockp	N93-13992 applied orophan and and novel N93-15009 egworth air N93-19662 additional N93-19663 injury to the N93-19664 ag occupant N93-19666 est dummies N93-19669 the impact N93-19671 asuring the uring impact N93-19670 of UK Army N93-19680 ockpit N93-19761 lemonstrator N93-19769 N93-19770 it N93-19777 kpit warning
pharmacological characteristics of direlated antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation of accident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechalower limb in an impact aircraft accident Computer aided methods for response to impact using OASYS D The design and use of automotive The application of Hybrid 3 du assessment of a free-fall lifeboat A new instrumentation system dynamic response of the human hea acceleration Disorientation and flight safety: A aircrew Aircrew acceptance of automation The MOD (UK) integrated helmet te programme Mutti-tunction visor Management of avionics data in til Model-based reasoning applies systems	and extromett drugs p 54 of the K. p 142 provide p 125 nism of ident? p 162 provide p 125 simulatir yNA3D p 142 crash te p 142 crash te p 143 for me do/neck d p 143 survey p 133 n in the c p 144 cchnical d p 145 p 146 he cockp p 147 d to coc p 147	N93-13992 applied orophan and and novel N93-15009 agworth air N93-19662 additional N93-19663 injury to the N93-19664 ag occupant N93-19666 ast dummies N93-19661 aswing the impact N93-19671 aswing the N93-19670 of UK Army N93-19680 ockpit N93-19769 N93-19770 it N93-19777 kgit warning N93-19777 kgit warning N93-19778
pharmacological characteristics of direlated antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation of accident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechalower limb in an impact aircraft accident Computer aided methods for response to impact using OASYS D The design and use of automotive The application of Hybrid 3 du assessment of a free-fall lifeboat A new instrumentation system dynamic response of the human hea acceleration Disorientation and flight safety: A aircrew Aircrew acceptance of automation The MOD (UK) integrated helmet to programme Mutti-function visor Management of avionics data in the Model-based reasoning applies systems The integration of advanced co	and extromett drugs p 54 of the K, p 142 provide p 125 of ent? p 54 of ent? p 142 of ent? p 142 of ent	N93-13992 applied orophan and and novel N93-15009 agworth air N93-19662 additional N93-19663 injury to the N93-19664 ag occupant N93-19666 set dummies N93-19669 the impact N93-19671 assuring the uring impact N93-19670 ockpit N93-19761 demonstrator N93-19770 it N93-19770 kpit warning N93-19778 kpit warning N93-1978 kpit
pharmacological characteristics of direlated antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation of accident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechalower limb in an impact aircraft accident Computer aided methods for response to impact using OASYS D. The design and use of automotive The application of Hybrid 3 duassessment of a free-fall lifeboat A new instrumentation system dynamic response of the human hea acceleration Disorientation and flight safety: A aircrew Aircrew acceptance of automation The MOD (UK) integrated helmet te programme Mutti-function visor Management of avionics data in the Model-based reasoning applie systems The integration of advanced codesign	and extrometh drugs p 54 of the K- p 142 provide p 125 nism of ident? p 125 simulatir YNA3D p 142 c crash to p 143 for me do/neck do p 143 survey p 133 of the cockp p 147 d to cock p 147 ockpit a p 147	N93-13992 applied on orphan and and novel N93-15009 agworth air N93-19662 additional N93-19663 injury to the N93-19664 ag occupant N93-19666 ast dummies N93-19669 the impact N93-19671 asuring the uring impact N93-19672 of UK Army N93-19769 N93-19770 at N93-19777 kpit warning N93-19777 kpit warning N93-19778 nd systems NS3-19779
pharmacological characteristics of direlated antitissue/anticonvulsant analogs (AD-A255607) Occupant kinematics simulation of accident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechalower limb in an impact aircraft accident. Computer aided methods for response to impact using OASYS D. The design and use of automotive. The application of Hybrid 3 du assessment of a free-fall lifeboat. A new instrumentation system dynamic response of the human hea acceleration. Disorientation and flight safety: A aircrew Aircrew acceptance of automation. The MOD (UK) integrated helmet to programme. Mutti-function visor. Management of avionics data in the Model-based reasoning applies systems. The integration of advanced codesign. Helicopter night vision goggle.	and extrometh drugs p 54 of the K. p 142 provide p 125 nism of ident? p 125 simulatir YNA3D p 142 crash te p 142 crash te p 143 for me dd/neck de p 143 survey p 133 n in tha c p 144 cchnical c p 145 p 146 he cockp p 147 d to cock p 147 cockpit al p 147 testing ir	N93-13992 applied on orphan and and novel N93-15009 egworth air N93-19662 additional N93-19663 injury to the N93-19664 ag occupant N93-19666 est dummies N93-19666 est dummies N93-19671 asuring the uring impact N93-19670 of UK Army N93-19680 ockpit N93-19769 N93-19770 it N93-19770 rit N93-19777 kpit warning N93-19778 and systems N93-19779 of the United
pharmacological characteristics of direlated antitissue/anticonvulsant analogs [AD-A255607] Occupant kinematics simulation of accident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechalower limb in an impact aircraft accident Computer aided methods for response to impact using OASYS D. The design and use of automotive The application of Hybrid 3 du assessment of a free-fall lifeboat A new instrumentation system dynamic response of the human hea acceleration Disorientation and flight safety: A aircrew Aircrew acceptance of automation The MOD (UK) integrated helmet to programme Mutti-function visor Management of avionics data in the Model-based reasoning applies systems The integration of advanced codesign Helicopter night vision goggle Kingdom	and extromett drugs p 54 of the K, p 142 provide p 125 nism of ident? p 125 simulatir YNA3D p 142 of crash te p 142 of crash te p 143 for med/neck d p 143 survey p 133 ni nthe c p 144 echnical d p 145 p 146 he cockp p 137 ockpit an p 147 testing ir p 148	ny3-13992 applied orophan and and novel Ny3-15009 egworth air Ny3-19662 egworth air Ny3-19663 injury to the Ny3-19664 injury to the injury to
pharmacological characteristics of direlated antitissue/anticonvulsant analogs (AD-A255607) Occupant kinematics simulation of accident Can injury scoring techniques information for crash investigators? Is axial loading a primary mechalower limb in an impact aircraft accident. Computer aided methods for response to impact using OASYS D. The design and use of automotive. The application of Hybrid 3 du assessment of a free-fall lifeboat. A new instrumentation system dynamic response of the human hea acceleration. Disorientation and flight safety: A aircrew Aircrew acceptance of automation. The MOD (UK) integrated helmet to programme. Mutti-function visor. Management of avionics data in the Model-based reasoning applies systems. The integration of advanced codesign. Helicopter night vision goggle.	and extrometh drugs p 54 of the K. p 142 provide p 125 nism of ident? p 125 simulatir YNA3D p 142 e crash te p 142 e crash te p 143 of p 143 of p 143 survey p 133 a in the c p 144 echnical de p 145 p 146 he cockp p 147 d to coc p 147 testing ir p 148 t of worl	ny3-13992 applied orophan and and novel Ny3-15009 egworth air Ny3-19662 egworth air Ny3-19663 injury to the Ny3-19664 injury to the injury to

Development of Arabidopsis Ihaliana grown under microgravity conditions p 211 N93-24404 Pilot decision aiding for weapon delivery: A novel approach to fire control cueing using parallel computing p 317 N93-28853

The design and development of the new RAF standard **HUD** format p 318 N93-28856 The quest for an integrated flying helmet p 319 N93-28860 The physiological limitations of man in the high G environment p 319 N93-28861 Oculo-motor responses and virtual image displays p 319 N93-28862 Operator and automation capability analysis: Picking the ght team p 319 N93-28864 right team Ergonomic development of digital map displays
p 320 N93-28866 A modular head/eye platform for real-time reactive [OUEL-1941/92] p 320 N93-28897 Mandatory multi-engined training syllabus [CAP-601] p 363 N93-31729 Transmission of vibration through the human body to the head: A summary of experimental data [ISVR-TR-218] p 361 N93-32237 Blood lipids in aircrew recruits and in RAF aviators p 362 N93-32251 USSR Physiological experiments within the project AustroMir p 219 N93-24354 UZBEKISTAN Possible biological significance of the curvature of equipotential surfaces of gravity-force tidal variations p 324 A93-43025 Y YUGOSLAVIA Back ache in helicopter pilots p 382 A93-49566

Explosives search dogs

p 159 N93-21933

CONTRACT NUMBER INDEX

AEROSPACE MEDICINE AND BIOLOGY / A Continuing Bibliography 1993 Cumulative Index

January 1994

Typical Contract Number Index Listing



Listings in this index are arranged alphanumerically by contract number. Under each contract number the accession numbers denoting documents that have been produced as a result of research done under the contract are shown. The accession number denotes the number by which the citation is identified in the abstract section. Preceding the accession number is the page number on which the citation may be found.

AF PROJ. 1121		p 27	N93-12252
		p 340	N93-30026
AF PROJ. 1123		p 131	N93-17857
		p 69	N93-14520
	***************************************	p 353	N93-29888
Ai 11103. 7104	***************************************	p 353	N93-29889
AF PROJ. 7231		•	
AF Phos. 7231		p 31	N93-11559 N93-13874
		p 66	N93-13674
AE DDO 1 7740		p 104	
		p 340	N93-29481
AF-AFOSR-0008-89		p 123	N93-18362
AF-AFOSR-0016-89	,	p 23	N93-12469 N93-11503
AF-AFOSR-0027-91		p 26 p 219	
AF-AFOSR-0029-91		p 14	N93-24247 N93-10765
AF-AFOSR-0047-90		D 217	N93-70765
AF-AFOSR-0080-91		p 224	N93-23459
AF-AFOSR-0092-90		p 330	N93-23479
AF-AFOSR-0098-90		p 335	N93-30394
AF-AFOSR-0100-91		p 259	N93-26347
AF-AFOSR-0104-90		p 361	N93-32018
AF-AFOSR-0108-90		p 361	N93-31981
AF-AFOSR-0124-91		p 31	N93-10994
70 70 0011-0124-01		p 261	N93-26449
AF-AFOSR-0126-89	***************************************	p 261	N93-26489
AF-AFOSR-0138-87		p 122	N93-18264
AF-AFOSR-0144-91		p 260	N93-26364
AF-AFOSR-0146-91	***************************************	p 259	N93-26307
AF-AFOSR-0154-91		p 26	N93-11488
		p 24	N93-10278
AF-AFOSR-0175-90		p 130	N93-17820
AF-AFOSR-0175-91		p 361	N93-32015
AF-AFOSR-0191-91		p 261	N93-26446
AF-AFOSR-0196-91		p 221	N93-24420
AF-AFOSR-0199-91		p 334	N93-30153
AF-AFOSR-0200-90		p 34	N93-12229
AF-AFOSR-0208-91		p 338	N93-31094
AF-AFOSR-0215-90		p 69	N93-14427
AF-AFOSR-0221-90		p 59	N93-14788
		p 260	N93-26435
_		p 260	N93-26436
AF-AFOSR-0227-89		p 54	N93-15053
AF-AFOSR-0238-89		p 121	N93-18006
	***************************************	p 337	N93-31061
		p 131	N93-17921
AF-AFOSR-0270-89		p 55	N93-15198
AF-AFOSR-0271-91		p 13	N93-10661
AF-AFOSR-0274-90		p 58	N93-14510
		p 341	N93-30033
		p 337	N93-30904
AF-AFOSR-0294-90		p 14	N93-11146

AF-AFOSR-0304-89	p 22	N93-11841
AF-AFOSR-0325-90	p 53	N93-14782
AF-AFOSR-0335-89	p 13	N93-10650
AF-AFOSR-0342-91	p 225	N93-24297
AF-AFOSR-0343-90	p 135	N93-20326
AF-AFOSR-0351-88	p 42 p 25	N93-14557 N93-10658
AF-AFOSR-0401-91	p \$8	N93-10656
71 71 0013-0401-01	p 260	N93-26436
	p 261	N93-26521
AF-AFOSR-0413-91	p 285	N93-28759
AF-AFOSR-0414-89	p 260	N93-26349
AF-AFOSR-0428-91	p 336	N93-30422
AF-AFOSR-0429-89	р 60 р 59	N93-15329 N93-15067
AF-AFOSR-0490-89	p 336	N93-30494
AF-AFOSR-1051-91	p 235	N93-24067
AF-AFOSR-83-0366	p 204	A93-33031
AF-AFOSR-90-0095	p 388	A93-51959
AF-AFOSR-91-0057	p 98	A93-20275
AF-AFOSR-91-0112	p 191	A93-29112
AF-AFOSR-91-0150 BMFT-01-QV-8712	p 102	A93-19984 A93-35495
BMFT-50-QV-8846	p 251 p 210	N93-24401
DA PROJ. MM3-3-P-30	p 121	N93-18209
DA PROJ. M00-95	p 121	N93-18210
DA PROJ. M00-96	p 225	N93-24319
	p 225	N93-24319
DA PROJ. RR0-4108	p 50	N93-13116
DA PROJ. 1L1-62716-AH-70	p 58 p 104	N93-14416 N93-16048
	p 321	N93-28941
DA PROJ. 1L1-62786-AH-98	p 34	N93-12423
	p 335	N93-30196
DA PROJ. 201-62785-A-790	p 366	N93-32012
DA PROJ. 201-62785-A-791	b 56	N93-11779
DA PROJ. 202-63007-A-792	p 363	N93-32011
DA PROJ. 202-63007-A-793 DA PROJ. 2930	р 30 р 353	N93-10261 N93-30167
DA PROJ. 3M1-61102-BS-11	p 54	N93-15009
DA PROJ. 3M1-61102-BS-12	p 50	N93-12945
DA PROJ. 3M1-61102-BS-15	p 69	N93-14161
	p 95	N93-16187
	b 583	N93-28122
DA PROJ. 3M1-62787-A-874	p 334 p 53	N93-29820 N93-14535
DA PROJ. 3M1-62787-A-874 DA PROJ. 3M1-62787-A-875	p 254	N93-25629
DA PROJ. 3M1-62787-A-878	p 52	N93-14163
	p 171	N93-20563
DA PROJ. 3M1-62787-A-879	p 235	N93-23992
	p 226	N93-24431
DA PROJ. 3M1-62787-A-8879	p 268 p 255	N93-26265 N93-26218
DA PROJ. 3M1-62787-A-897	p 283	N93-27923
DA PROJ. 3M2-63002-D-819	p 128	N93-20384
DA PROJ. 3M2-63002-D-840	p 13	N93-10709
DA PROJ. 3M2-63002-F-995	p 58	N93-14600
DA PROJ. 3M4-63807-D-836	p 52	N93-14103 N93-18295
DA PROJ. 301-61102-BS-15	p 123	N93-18295 N93-15006
DAAH01-91-C-R240	р 54 Р 52	N93-14210
DAAL03-86-D-0001	p 363	N93-32011
DAAL03-87-K-0004	p 330	N93-29915
DAAL03-89-C-0031	p 192	A93-29118
DAAL03-89-K-0064		N93-25764
DAAL03-89-K-0121	p 42 p 255	N93-13863 N93-25944
DAAL03-89-K-0178 DAAL03-90-G-0191		N93-15363
DAAL03-91-G-0325	p 219	N93-24238
DAEA18-90-C-0044	p 390	A93-49393
	p 390	A93-49398
DALICSE SO D DOSC	p 32	N93-11783
DAHC35-89-D-0030 DAMD17-83-C-3172	р 70 р 52	N93-14651 N93-14163
DAMD17-85-C-5206	p 115	A93-14165
	p 117	A93-24043
DAMD17-86-C-6161	p 50	N93-12945
DAMD17-86-C-6260	p 42	N93-14648
	p 358	N93-32035
DAMD17-87-C-7202	p 280	A93-41120
	p 280	A93-41121
DAMD17-88-C-8032	p 52	N93-14163
DAMD17-88-C-8058	p 123	N93-18295

DAMP12 00 C 0100	- 00	NI00 4450
DAMD17-88-C-8169	p 22	N93-1156
DAMD17-88-Z-8807	p 130	A93-25209
DAMD17-89-C-9027	p 171	N93-2056
DAMD17-89-C-9073	p 385	A93-52302
	р 385	A93-52303
DAMD17-90-C-0124	p 54	N93-15009
	p 54	N93-1500
DAMD17-91-C-1076	p 95	N93-1618
	p 229	A93-30067
B 4 4 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	p 297	A93-41408
DAMD17-91-C-1112	p 334	N93-29820
	p 53	N93-14535
DAMD17-92-J-2003 DARA-FKZ-01-QV-8735	p 401	N93-14161 A93-55165
DARA-50-QV-8857-5	p 111	A93-21901
DE-AC02-76CH-00016		A93-13935
DC 71002 7001 00010	p 5	N93-10461
	p 5	N93-11630
	p 115	N93-19751
DE-AC02-80RA-50219	p 41	N93-13503
	p 41	N93-13520
	p 95	N93-16166
	p 207	N93-22913
	p 211	N93-24455
DE-AC02-83CH-10093	p 137	A93-25309
	p 82	N93-17189
	p 276	N93-28890
DE-AC03-76SF-00098		N93-17359
DE-AC04-76DP-00789	p 97	N93-17230
	p 237	N93-24502
	p 264	N93-25318
DE-AC04-76EV-01013	p 330	N93-30483 A93-20779
DE-AC04-76EV-01013	p 104	N93-10626
DE-AC05-76OR-00033	p 13	N93-19838
DE-AC05-84OR-21400	p 137	A93-25309
	p 6	N93-12315
	p 237	N93-25099
	p 211	N93-25104
	p 264	N93-25415
	p 246	N93-26587
	p 276	N93-28890
DE-AC06-76RL-01830	р5	N93-10834
<u></u>	p 63	N93-12712
DE-AC07-76ID-01570	p 137	A93-25309
DE DIZO 0000 04000	p 321	N93-28942
DE-BI79-90BP-04293 DE-FG01-89CE-34023	p 43	N93-15211
DE-FG01-89CE-34023	p 276	N93-28848 N93-28651
DE-FG02-87ER-60561	p 276 p 23	N93-20031
DE-1 G02-07 E11-00301	p 95	N93-15900
DE-FG02-88ER-13903	p 329	A93-44941
DE-FG02-88ER-60631	p 6	N93-12266
DE-FG02-90ER-61091	p 96	N93-16441
DE-FG02-91ER-20021	p 5	N93-10835
DE-FG02-91ER-20033	p 276	N93-29181
DE-FG02-91ER-61228	p 22	N93-11445
DE-FG05-87ER-60503	p 40	N93-13034
DE ECOE 08ED 60707	p 40	N93-13083
DE-FG05-88ER-60707 DE-FG05-91ER-81235		N93-24009
		N93-26587
DE ECO. 00110 07000	p 39	N93-12768 N93-12482
DE-FG21-90MC-2/225	p 40	N93-13269
DFG-716/1-2		A93-42191
DHHS-R59-CCR-902269	p 283	N93-27409
DLA900-86-C-2045	p 30	N93-10217
	p 30	N93-10288
	p 33	N93-12079
	p 317	N93-28757
	p 284	N93-28758
DNA001-86-C-0308		N93-29484
DNA001-88-C-0207	p 59	N93-15216
DRET-87-219	p 38/	A93-52619
DRET-88-069 DRET-89-176		A93-20030
DRET-89-237		A93-20026 A93-30280
DTCG39-89-C-E10G56	0 107	N93-17697
DTFA01-89-C-00057		A93-27167
DTFA01-90-C-00042	p 99	N93-16189
	p 288	N93-27103
DTFA01-92-Y-01005	p 234	
DTFA02-90-90125		

DTFR53-82-C-00254	. р 351	N93-29675	NAGW-1863	p 94	A93-20658	NAG9-249		A93-17542
DTRS-57-88-C-00078		A93-39573	NAGW-1911	p 197	A93-28376	NAG9-267	. р 44	A93-14968
DTRS-57-88-C-0078TD39	p 61	A93-14377	NAGW-1941			NAG9-284	. p 303	A93-41474
EEC-3075		N93-20848	NAGW-1953			NAG9-291		
EPA-CR-818696-01-0		A93-41388				NAG9-295		
EPA-68-D0-0101			NAGW-1998	p 285	N93-29041			
		N93-10438	NAGW-2147			NAG9-372		
EPA-68-02-4544		N93-21215	NAGW-2205					A93-29135
EPA-68-08-0023		N93-12983	NAGW-2245	p 185	A93-27038	NAG9-375		
ESA-9254/90/NL/FG	p 309	A93-41553	NAGW-2356				p 251	A93-35494
FAA PROJ. AM-A-91-PHY-144	p 253	N93-25214			A93-41545	NAG9-422	D 141	N93-18517
FAA PROJ. AM-C-90/91-HRR-122		N93-24088				NAG9-442		
FAA PROJ. AM-C-92-HRR-122		N93-25203	NA CW 2020		A93-41546	NAG9-443		
			NAGW-2370					
FAA PROJ. AM-C-92-HRR-125		N93-25213	NAGW-2436	p 269	N93-26157	NAG9-446		
FFWF PROJECT P-6221			NAGW-2546	p 313	N93-27847	NAG9-461		
FFWF PROJECT P-7556-BIO		A93-32850	NAGW-2818			NAG9-505	p 297	A93-41406
FFWF PROJECT P-8475-MOB	p 354	A93-43792		p 74		NAG9-562	p 258	N93-26082
F19628-89-C-0001		N93-29340		•		NAG9-582	n 277	N93-29216
F19628-90-C-0002			NACIM POTO	p 41	N93-13457	NAG9-634		
1 13020-30-0-0002		N93-14580	NAGW-2872					
	p 333	N93-29421			N93-16709	NASA ORDER H-18763-D		
F30602-91-C-0028	p 191	A93-29112		p 322	N93-28895	NASA ORDER T-9310-R		A93-32243
F33615-86-C-4505	p 317	N93-28464	NAGW-2881		A93-52878	NASW-4102	p 41	N93-13327
F33615-87-C-0603	p 130	N93-17816	NAGW-2940		N93-16840	NASW-4292		N93-25195
F33615-87-C-1436		A93-14727				NASW-4324		N93-15583
F33615-87-D-0609			NAGW-2950		A93-31517	11/1011-4024	p 123	N93-18376
			NAGW-593		A93-16544	NASW-4435	P 123	
F33615-87-D-0626			NAGW-606	p 330	N93-30665	NASW-4435	p 108	N93-17710
F33615-88-C-0014			NAGW-70	p 78	A93-20033		p 83	N93-17780
F33615-88-C-0015			NAGW-825		A93-40308		p 108	N93-17805
		N93-17684	NAGW-834				p 108	N93-17806
		N93-18273	NAGW-860			•		N93-17970
F33615-88-C-3612		N93-19956					p 138	N93-17971
. 55515-65-0-012			NAGW-949					
F00045 00 G ====	p 314	N93-27927			A93-33026		p 139	N93-17973
F33615-89-C-0532		A93-30065		p 328	A93-44903			N93-18019
	p 348	A93-42840	NAG1-1008	p 136	A93-23846		p 140	N93-18113
F33615-89-C-0603		N93-12905	NAG1-1296					N93-18153
		N93-30400					p 140	N93-18156
F33615-90-C-0005			NAG1-690				p 352	N93-29760
1 33013-30-0-0003			NAG10-0106			A14 C111 4 470		
	p 57	N93-12662	NAG2-12			NASW-4470		N93-27100
		N93-18029	NAG2-195	p 394	A93-52502			N93-27101
	p 148	N93-20050	NAG2-210			NAS1-18687	p 28	A93-12222
	p 353	N93-29924			A93-32474	NAS1-18788	p 388	A93-52187
	p 341	N93-30542			A93-33031	NAS1-18847		A93-10337
F33657-91-C-2211			NACO OLO			NAS1-19345		A93-13357
			NAG2-212					
F41624-92-C-6007			NAG2-239			NAS10-11624		A93-14975
F49620-88-C-0053			NAG2-289	p 399	A93-55933		p 279	A93-40549
F49620-90-C-0077	p 25	N93-10662	NAG2-308	p 176	A93-27144		p 4	N93-10085
F49620-92-C-0013	p 260	N93-26391			A93-27195		p 139	N93-18111
F49620-92-J-0016		N93-30192			A93-36229	NAS2-12852	p 182	A93-26887
F49620-92-J-0119		N93-26356	NACO OGO					A93-41323
			NAG2-362			NAS2-12927		
F49620-92-J-0156			NAG2-384			NAS2-12927		
F49620-92-J-0169		N93-30163	NAG2-386	p 37	A93-14974			N93-24738
F49620-92-J-0188	p 335	N93-30421	NAG2-392	p 78	A93-20036	NAS2-13210	p 182	A93-26887
F49620-92-J-0205	p 337	N93-30908	*		A93-44178	NAS2-13345	p 304	A93-41484
F49620-92-J-0214		N93-30160	NAG2-410				p 149	N93-20065
F49620-92-J-0363		N93-30613				NAS7-1069		A93-45598
G966016-J45			NAG2-414			NAS7-932		N93-13450
G900010-343					A93-33043			
	•	N93-23070		p 205	A93-33045	NAS7-969		N93-13612
		N93-23071		p 222	N93-24763	NAS8-36407		N93-22002
	p 208	N93-23080		p 282	N93-27102	•	p 311	N93-27720
	p 209	N93-23081			N93-27113	NAS8-36955	p 23	N93-12427
	p 209	N93-23082	NAG2-426				p 40	N93-12901
HAG ORDER 966016-J45-EAGLE			NAG2-427				p 40	N93-12949
							p 64	N93-12966
MDA903-85-C-0332			NAG2-438			NAS8-37814	p 04	NO0 2005 1
MDA903-86-C-0169					A93-32124	NA00-3/014		
	p 180	A93-27454		p 202	A93-32651			N93-32356
MDA903-86-C-0384		N93-32012			A93-32652			N93-32365
MDA903-86-C-0412	p 26	N93-11779			A93-33035	NAS8-38038	p 301	A93-41443
MDA903-87-C-0523	p 30	N93-10261			A93-44923	NAS8-38490	p 301	A93-41443
	p 35	N93-12508			A93-52721	NAS8-38781		N93-12990
	p 35	N93-12509	NAG2-448					N93-25888
	p 63	N93-12545	NAG2-448			NAS8-39843		
					A93-44931			
	p 63	N93-12609			N93-22800	NACO 50000		N93-26088
	p 235	N93-24001	NAG2-555			NAS8-50000		A93-41365
MDA903-89-C-0003		A93-30287		p 327	A93-44184	NAS9-14546		A93-55933
	p 25	N93-10719	NAG2-568	p 37	A93-14970	NAS9-15343	p 403	A93-55941
	p 35	N93-12491	NAG2-574		N93-19377	NAS9-16037		A93-52617
MDA903-92-D-0025		N93-30590	NAG2-610		N93-13449	NAS9-16044		A93-14968
MIPR-Z51100-1-E27A57		N93-30426				NAS9-17267		A93-16158
			NAG2-623					A93-44928
MIPR-91MM1533		N93-10796	NAG2-656			NAS9-17403		
MIPR-91M1502		N93-10709			N93-20908	11400 47440	p 328	A93-44929
MOESC-63540445		A93-18008	NAG2-671	p 398	A93-55168	NAS9-17413		A93-17531
NAGW-1128		A93-32004	NAG2-716		A93-14377	NAS9-17416		A93-20661
NAGW-114		A93-55997	NAG2-722		N93-19039	NAS9-17745	p 379	A93-49222
NAGW-1196		A93-20661	NAG2-750			NAS9-17822		
141477-1100	p 329					NAS9-17900		
NACW 1107		A93-44933	NAG2-782			11703-17900		
NAGW-1197		A93-41547	NAG3-1027					A93-27157
NAGW-1244		A93-20660		p 246	N93-27085			A93-27160
NAGW-1508		A93-41075	NAG5-1572	p 65	N93-13717			A93-27170
NAGW-1527		A93-41075	NAG8-807				p 303	A93-41464
NAGW-1600		A93-44941			N93-28415		p 34	N93-12195
			NAG9-117	0 214	A93-32176		p 34	N93-12211
	p 397	A93-52878	TOTAL TITLE TOTAL	P 214	A02 22774		p 96	N93-16619
NACW 1000					A93-32774			
NAGW-1660		A\$3-44939			N93-18596			N93-23129
NAGW-17		A93-39571			N93-32364			N93-25736
NAGW-1803		A93-33026	NAG9-118	p 116	A93-24037		p 321	N93-29044
NAGW-1823		A93-16544	NAG9-130		A93-20039		p 321	N93-29324
NAGW-1849	-		NAG9-241			NAS9-18057		
TV 10 TT 10 70	P 323			F			٠٥	

NAS9-18128	n 85	A93-17538	NILL C 12 DD 02060 01A1	n 220	A02 44025	NSF EAR-86-09782	n 110	A03.1708A
			NIH-G12-RR-03059-01A1					
NAS9-18348			NIH-HD-00681			NSF EAR-90-05744		
NAS9-18361					A93-41121	NSF EAR-90-18468	p 74	A93-18005
	p 274	N93-27122	NIH-HD-06016	p 201	A93-32113		p 74	A93-18007
	p 275	N93-27360		p 202	A93-32651		p 397	A93-53291
NAS9-18440	n 213	A93-30285		D 202	A93-32652		p 41	N93-13457
NAS9-18492	D 224	N93-29651			A93-33035	NCC EAD 04 40044		A93-53289
						NSF EAR-91-18011		
NA89AA-D-SG-053		N93-15208			A93-44923	NSF INT-86-2045		A93-41075
NCA2-225	p 55	A93-14098			A93-52721	NSF INT-87-12007	p 325	A93-43795
	p 339	A93-44922	NIH-HL-01998	p 279	A93-41118	NSF INT-89-22466	p 375	A93-49208
NCA2-248	p 98	A93-20275	NIH-HL-07212	p 323	A93-42187	NSF IRI-90-03252		A93-31267
NCA2-413		A93-17974	NIH-HL-07249		A93-42193	NSF MCB-91-17694		A93-27799
NCA2-468			NIH-HL-07449					A93-14377
					A93-20038	NSF MSS-85-52702		
NCC2-100		A93-44879	NIH-HL-07467			NSF MSS-89-10095		A93-23846
		A93-44880	NIH-HL-07625			NSF MSS-90-24391		A93-27034
	p 357	A93-46468	NIH-HL-07776			NSF OCE-81-18897	p 397	A93-53285
•	p 357	A93-46469	NIH-HL-14985	p 117	A93-24043	NSF OCE-83-12036	p 397	A93-53285
	p 357	A93-46470		p 280	A93-41120	NSF OCE-85-12832		A93-53285
NCC2-12	n 320	A93-44935			A93-41121	NSF OCE-86-01316		A93-53285
					A93-44181			
NCC2-167		A93-55937	NIII 1 1 4 COOO			NSF OCE-90-02366		A93-53285
NCC2-220		A93-42450	NIH-HL-16022		A93-20038	NSF OCE-90-02532		N93-30665
NCC2-229	p 271	A93-38451	NIH-HL-17731	p 111	A93-21684	NSG-1414	p 231	A93-31517
NCC2-253	n 94	A93-20659		p 117	A93-24043	NSG-7278		A93-46471
NCC2-307		A93-17673			A93-42187	NWO-SON-328-050		A93-11150
NCC2-370				p 331	A93-42188			A93-49214
		A93-20661	NIII I III OOCOA			NWO-783-380-100		
NCC2-377		A93-52506	NIH-HL-20634		A93-41168	N00014-85-C-0013		N93-24227
NCC2-414		N93-26047	NIH-HL-33567		A93-26500	N00014-85-K-0124		N93-23986
NCC2-455	p 329	A93-44935	NIH-HL-33782		A93-42192	N00014-86-K-0678	p 364	N93-32064
NCC2-495			NIH-HL-37235	р8	A93-10332	N00014-86-K-0680		A93-49393
NCC2-517			NIH-HL-39818		A93-41168		p 390	A93-49398
			NIH-HL-39966		A93-42193	N00014 97 C 0700		
1000 544		A93-29132				N00014-87-C-0790		N93-11812
NCC2-541			NIH-HL-40273		A93-20663	N00014-89-J-1640		N93-13116
		A93-41323	NIH-HL-44678		A93-20038	N00014-89-J-3146	p 69	N93-14548
NCC2-578			NIH-HL-46481		A93-44181	N00014-89-J-3149		N93-18252
		A93-32116	NIH-K04-AG-00369		A93-20665	N00014-90-C-0053		N93-11193
			NIH-MH-28783		A93-33031	N00014-90-C-0033		
NCC0 500		A93-36557					•	N93-24227
NCC2-592			NIH-MO1-RR-00073		A93-41122	N00014-90-J-1307		N93-14109
NCC2-607	p 209	N93-23169	NIH-M01-RR-00088	p 152	A93-27224	N00014-90-J-1492	p 26	N93-11415
NCC2-613	p 257	A93-36229	NIH-NEI-R01-EY07046	p 103	A93-19989	N00014-90-J-1626	p 283	N93-27654
NCC2-614			NIH-NO1-AG-9-2216		A93-21686	N00014-90-J-1648		N93-28293
			NIH-NS-21231		A93-33031			N93-10271
NCC2-628						N00014-90-J-1864		
NCC2-632	p 102	A93-19986	NIH-P01-AG4402-05		A93-21686	N00014-90-J-1917		A93-27799
	p 179	A93-27194	NIH-RO1-MH-43924	p 97	A93-17974	N00014-90-J-4014	p 263	A93-35536
	o 230	A93-30454	NIH-RR-00088-24	p 204	A93-33031	N00014-91-C-0044	p 254	N93-25900
NCC2-643			NIH-RR-00165		A93-32113	N00014-91-C-0190		N93-15192
			NIH-RR-00350		A93-20039	1400014-31-0-0130	p 333	N93-29509
NCC2-86								
		A93-33449	NIH-RR-02558		A93-20039	N00014-91-J-1290		A93-27799
NCC8-17	p 303	A93-41473	NIH-RR-02719			N00014-91-J-1316	p 224	N93-23960
NCC9-16	p 184	A93-27034	NIH-RR-05818	p 202	A93-32749	N00014-91-J-1540	p 99	N93-16111
		N93-20314		p 205	A93-33045		p 123	N93-18363
NERC-GR/3/7779		A93-18009	NIH-R01-AG-08322	n 80	A93-20665	N00014-91-J-1598		N93-14532
			NIH-R01-AR-18140					
NFR-G-GU-3865					A93-21687	N00014-91-J-1653		N93-12871
NGL-22-009-640		A93-14377	NIH-R23-3026		A93-33027	N00014-91-J-1903	p 258	N93-25654
NGR-03-018-148	p 412	A93-55998	NIH-R29-GM-39723		A93-18036	N00014-91-J-4168	p 27	N93-12225
NGR-05-007-407			NIH-S07-RR-07002	p 399	A93-55458	N00014-92-J-1164	p 122	N93-18223
NGR-33-018-148			NIH-T32-HL-07625	p 379	A93-49221	N00014-92-J-1244	p 334	N93-29620
1101100-010-140			NIH-T32-MH-19761-0851		A93-32119	N00014-92-J-1558		N93-13252
		A93-36554			A93-20658			
NGR-44-005-002			NIH-1-RO1-AG06072			N00019-88-C-0288		N93-28870
NGT-05-004-801	p 118	A93-25206	NIH-1-R01-AG-08521-01		A93-52299	N00039-91-C-0001		N93-22163
NGT-44-005-803	p 266	N93-26061	NIH-5-R24-RR-02170			N0014-89-J-1700	p 375	A93-49207
		N93-26068	NIOSH-R43-OH02097	p 338	N93-31138	PHS-AA-06093	p 46	A93-16151
		N93-26069	NR PROJ. MM3-3-P-30			PHS-R01-HG-00312-03		
		N93-26073			N93-18294	PHS-R03-OH0-2821-01		
		N93-26076	NR PROJ. MR0-4101			PR-91-007-008		N93-24590
		N93-26077	NR PROJ. M00-96			PROJ. IR-90-2		N93-15208
NGT-50206	p 44	A93-14968			N93-17919	PROJ. K7-17		N93-13449
NGT-50379		A93-29132		p 131	N93-18205	PROJ. MM3-3-P-30	p 171	N93-20580
NGT-50493		A93-20036		p 122	N93-18280	PROJ. M00-99		N93-20587
	p 326	A93-44178	NR PROJ. M00-99		N93-17926	PROJ. R/C-S-27		N93-15208
NGT-50512			NR PROJ. RR0-4204		N93-14109	RICIS PROJ. SE-16		N93-20314
		A93-52406	NR PROJ. 3M1-61102-BS-87					
NGT-70124		A93-12222		•	N93-10796	RTOP 107-30-31		N93-12319
NIH-AA-07035	p 384	A93-52299	NS-072226		N93-22163	RTOP 141-20-0F		N93-27085
NIH-AG-03934	p 79	A93-20662	NSERC-A-2181		A93-31533	RTOP 199-04-16-11	p 50	N93-13023
NIH-AG-06537		A93-42193	NSERC-A-2427	p 138	A93-25482		p 124	N93-18381
N'H-AG-06836		A93-20659	NSF ASC-89-20219			RTOP 199-14-11-13		A93-41119
			NSF BNS-85-11685				p 380	A93-49292
NIH-AG-07719		A93-20662				DTOD 100 14 12 04		
NIH-AG-08589		A93-15663	NSF BNS-89-08512		A93-36229	RTOP 199-14-12-04		A93-49291
NIH-AR-30346	p 326	A93-44183	NSF BNS-89-19645				p 380	A93-49292
	p 327	A93-44184		p 280	A93-41121		p 381	A93-49295
NIH-AR-36266		A93-32749	NSF BNS-90-21081	p 179	A93-27196	RTOP 199-15-11-14	p 280	A93-41119
	p 205		NSF BSR-84-02051			RTOP 199-16-11-08		A93-16158
NULL ATT DEGE!		A93-33045			A93-33026	,,, o. 100-10-11-00		
NIH-AR-36834		A93-20663				DTOD 400 46 40 C	p 85	A93-17538
NIH-AR-37984	p 205	A93-33045			A93-44903	RTOP 199-16-12-34		A93-51959
NIH-AR-39998		A93-32749	NSF BSR-86-13583	p 272	A93-40308	RTOP 199-16-12-37	p 55	A93-14119
	p 204	A93-33043	NSF BSR-87-09242		A93-27775		p 174	A93-26950
	p 205	A93-33045		p 203			p 141	N93-19104
NULL CA 20240					A93-44903	RTOP 199-18-12-07		
NIH-CA-23248		A93-44934	NCC DCD 99 19122			111 OF 100-10-12-07		
	p 358	A93-46606	NSF BSR-88-18133		A93-55999		p6	N93-12014
NIH-CA-24385	p 329	A93-44934	NSF CCR-88-13632		N93-20848		p 255	N93-26133
NIH-CA-30187		A93-20663	NSF CDA-88-06866	p 291	A93-41319	RTOP 199-21-12	p 281	A93-41169
NIH-ES-01247		A93-41545	NSF CDA-88-22719			RTOP 199-22-12		A93-41169
			NSF CHE-85-06377			RTOP 199-22-22		A93-41169
NIH-ES-04872		A93-41545						
NIH-EY-01711		A93-14097	NSF CHE-90-00187			RTOP 199-22-32		A93-41169
NIH-GCRC5-M01-RR00888		A93-20658	NSF DMB-90-16973			RTOP 199-22-44	p 281	A93-41169
NIH-GM-08400		A93-42193	NSF DMC-88-57851	p 291	A93-41319	RTOP 199-26-12-38		A93-49291
NIH-GM-41635		A93-16481	NSF DMS-90-05833			RTOP 199-61-12-42		N93-12018
CCO1 P-1910-1 1151	P 00			۲.5,	200-70			

CONTRACT NUMBER INDEX

RTOP 476-14-03

RTOP 476-14-03	p 274	A93-41551
RTOP 505-64-29	p 236	N93-24490
RTOP 505-64-36	p 232	A93-33444
RTOP 506-71-51	p 55	A93-14119
	p 174	A93-26950
RTOP 674-23-08-17	p 203	A93-32850
RTOP-506-47	p 55	A93-14097
SBIR-06.05-4100	p 65	N93-13450
SBIR-08.15-1315	p 42	N93-13612
SMRC-07490-5A	p 275	N93-27989
SNSF-3,200,0092,85	p 279	A93-41117
SNSF-3,338,0,86	p 200	A93-32071
SNSRC-4426-3011	p 275	N93-27989
W-31-109-ENG-38	p 137	A93-25309
	p 96	N93-16552
	p 82	N93-17189
	p 210	N93-24028
W-7405-ENG-36	p 5	N93-10628
	p 49	N93-12566
	p 51	N93-13522
	p 217	N93-22774
	p 253	N93-25186
W-7405-ENG-48	p 43	A93-13774
	p 5	N93-10974

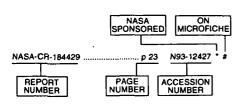
REPORT NUMBER INDEX

AD-A257016 p 99

AEROSPACE MEDICINE AND BIOLOGY / A Continuing Bibliography 1993 Cumulative Index

January 1994

Typical Report Number Index Listing



Listings in this index are arranged alphanumerically by report number. The page number indicates the page on which the citation is located. The accession number denotes the number by which the citation is identified. An asterisk (*) indicates that the item is a NASA report. A pound sign (#) indicates that the item is available on microfiche.

A-90237	p 35	N93-12319 * #
A-91204	p 236	N93-24490 * #
A-91244	p 141	N93-19104 * #
A-92113	p 255	N93-26133 * #
A-92141	р6	N93-12014 * #
A-92142	p 33	N93-12018 * #
A-92193	p 149	N93-20065 * #
A-93026	p 222	N93-24738 * #
	P	.100 2 17 00 "
AARL-92-27	p 52	N93-14103 #
AARL-92-30	p 58	N93-14600 #
	p 00	7100 74000 //
AAS PAPER 91-035	p 62	A93-15583 *
AAS PAPER 91-046		A93-15588
AAS PAPER 91-313	p 400	A93-54306 *
AAS PAPER 91-320	p 409	A93-54308
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4.40 B.45	p 402	A93-55802
440 B48== - :	p 402	A93-55805 *
		A93-55838
	p 410	
	p 392	A93-50592 *
	p 392	A93-50593 *
AAS PAPER 92-054		A93-50594
AAS PAPER 92-056	p 392	A93-50596
AAS PAPER 92-107	p 277	A93-39261 *
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	p 27	N93-12252 #
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AD-A252427		N93-10709 #
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AD-A253185	p 14	N93-11146 #
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AD-A253614 p 50

AD-A253648 p 31

AD-A253724 p 25

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AD-A254328 AD-A254336		p 23 p 59		#
AD-A254359		p 50		#
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AD-A254493		p 63		#
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AD-A255128		p 34		#
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AD-A255277		p 54		#
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AD-A255432		p 58		#
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AD-A256557				#

AD-A256602 p 52

..... p 104

...... p 104 N93-16258

..... p 95

AD-A256894

AD-A256959

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N93-16048

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AD-A257234		p 104	N93-15968
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AD-A258025		p 131	N93-17919
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AD-A258159		p 123	N93-18295
AD-A258168		p 131	N93-17921
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AD-A258186		p 131	N93-17857
AD-A258193 AD-A258198		p 132 p 121	N93-18298 N93-18217
AD-A258199		p 121 p 131	N93-18205
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AD-A259887		p 218	N93-23984
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AD-A260280		p 236	N93-24168
AD-A260322		p 219	N93-24238

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VD-V500150	p z	200	N93-25054	#				"	AFOSR-93-0339TR	p 342	N93-30543	Ħ
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AD-A260874	р 2	54	N93-25629	#	AD-A264881	p 337	N93-30908	#				
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				#					AFRRI-SR92-27			
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AD-A261040	p 2	58	N93-25815	#	AD-A265497			#	•			
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AD-A261059	p2	67	N93-26229	#	AD-A266032	p 288	N93-28622	#	AGARD-AG-334	p 95	N93-15824	#
AD-A261089	p2		N93-25764	#	AD-A266337	p 274	N93-27152	#		•		
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	p 2			#	AD-A207000	p 0	1100 20000	"	AGARD-CP-510			#
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	p 2		N93-26404	#	AD-D015684		N93-29606		AGARD-CP-533	p 367	N93-32240	#
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AD-A261445	p 2		N93-26521	#	AD-E501518	p 35	N93-12491	#		•		
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	p 2		N93-26349	#					AIAA PAPER 92-4067		A93-11253	#
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	p 2			17	, ,	- ·		"	AIAA PAPER 93-0794		A93-24873	#
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	р 3		N93-28112	#	AFIT/GSO/ENG/92D-04	p 125	N93-19369	#	AIAA PAPER 93-1014		A93-30928	#
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			N93-28758	"				"	AIAA PAPER 93-1464			
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	р 3		N93-28884		AFOSR-92-0837TR	p 54	N93-15053	#	AIAA PAPER 93-3875			#
	p 2i		N93-28293		AFOSR-92-0850TR		N93-12469	#	7.10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	p 000		
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	р 3		N93-29406	**			N93-14557		AL-SR-1991-0002			
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AD-A263191	р 3	21		#	AFOSR-92-0901TR	p 55	N93-15198	#	AL-TP-1992-0014	p 27	N93-12252	#
					ACOCO OD 0044TD	p 122	N93-18264	#	AL-TP-1992-0018		N93-17816	#
AD-A263240	р3	34	N93-29620		AFOSR-92-0911TR					p 130		#
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AD-A263240 AD-A263458 AD-A263498		34 54 22	N93-29620 N93-30590 N93-29340	#	AFOSR-92-0928TR			#	AL-TP-1992-0033	p 51	N93-14028	#
AD-A263240 AD-A263458 AD-A263498 AD-A263544	р 3 р 3 р 3 р 3	34 54 22 34	N93-29620 N93-30590 N93-29340 N93-29820	#	AFOSR-92-0928TRAFOSR-92-0946TR	p 135	N93-20326	#	AL-TP-1992-0034	p 51 p 51	N93-14027	#
AD-A263240 AD-A263458 AD-A263498 AD-A263544 AD-A263559	p 3	34 54 22 34 36	N93-29620 N93-30590 N93-29340 N93-29820 N93-30588	#	AFOSR-92-0928TRAFOSR-92-0946TRAFOSR-92-0950TR	p 135 p 121	N93-20326 N93-18006	#	AL-TP-1992-0034AL-TP-1992-0048	p 51 p 51 p 100	N93-14027 N93-17684	#
AD-A263240 AD-A263458 AD-A263498 AD-A263544 AD-A263559 AD-A263598	p 3 p 3 p 3 p 3 p 3 p 5 p 3 p 3	34 54 22 34 36 30	N93-29620 N93-30590 N93-29340 N93-29820 N93-30588 N93-29915	# # #. #	AFOSR-92-0928TRAFOSR-92-0946TRAFOSR-92-0950TRAFOSR-92-0976TR	p 135 p 121 p 130	N93-20326 N93-18006 N93-17820	# # #	AL-TP-1992-0034AL-TP-1992-0048AL-TP-1992-0053	p 51 p 51 p 100 p 335	N93-14027 N93-17684 N93-30400	# #
AD-A263240 AD-A263458 AD-A263498 AD-A263559 AD-A263559 AD-A263598 AD-A263874	p 3 p 3 p 3 p 3 p 3 p 3 p 3 p 3 p 5 p 3 p 5 p 5 p 6 p 7 p 7 p 7 p 7 p 7 p 7 p 7 p 7 p 7 p 7	34 54 22 34 36 30 53	N93-29620 N93-30590 N93-29340 N93-29820 N93-30588 N93-29915 N93-29888	# # #. #	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0976TR AFOSR-92-0997TR	p 135 p 121 p 130 p 224	N93-20326 N93-18006 N93-17820 N93-23479	# # # #	AL-TP-1992-0034	p 51 p 51 p 100 p 335 p 258	N93-14027 N93-17684 N93-30400 N93-25815	# # #
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AD-A263240 AD-A263458 AD-A263498 AD-A263559 AD-A263559 AD-A263598 AD-A263874	p 3 p 3 p 3 p 3 p 3 p 3 p 3 p 3 p 5 p 3 p 5 p 5 p 6 p 7 p 7 p 7 p 7 p 7 p 7 p 7 p 7 p 7 p 7	34 54 22 34 36 30 53	N93-29620 N93-30590 N93-29340 N93-29820 N93-30588 N93-29915 N93-29888	# # . # # #	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0950TR AFOSR-92-0997TR AFOSR-92-1019TR AFOSR-92-8841TR	p 135 p 121 p 130 p 224 p 235 p 53	N93-20326 N93-18006 N93-17820 N93-23479 N93-24067 N93-14782	#########	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0053 AL-TP-1992-0054 AL-TP-1992-0063 AL-TP-1993-0010	p 51 p 51 p 100 p 335 p 258 p 340 p 342	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481	# # #
AD-A263240 AD-A263458 AD-A263498 AD-A263554 AD-A263559 AD-A263598 AD-A263874 AD-A263875	p 3:	34 54 22 34 36 30 53 53	N93-29620 N93-30590 N93-29340 N93-29820 N93-30588 N93-29915 N93-29888 N93-29889	# # . # # #	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0976TR AFOSR-92-0997TR AFOSR-92-1019TR	p 135 p 121 p 130 p 224 p 235 p 53	N93-20326 N93-18006 N93-17820 N93-23479 N93-24067 N93-14782 N93-24297	# # # # #	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0053 AL-TP-1992-0054 AL-TP-1992-0063 AL-TP-1993-0010	p 51 p 51 p 100 p 335 p 258 p 340 p 342	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575	# # #
AD-A263240 AD-A263458 AD-A263544 AD-A263559 AD-A263598 AD-A263874 AD-A264021 AD-A264022	p 3	34 54 22 34 36 30 53 40 40	N93-29620 N93-30590 N93-29340 N93-29820 N93-30588 N93-29915 N93-29888 N93-29889 N93-30026 N93-30027	######################################	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0950TR AFOSR-92-0997TR AFOSR-92-1019TR AFOSR-92-8841TR	p 135 p 121 p 130 p 224 p 235 p 53 p 225	N93-20326 N93-18006 N93-17820 N93-23479 N93-24067 N93-14782	#########	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0053 AL-TP-1992-0054 AL-TP-1992-0063	p 51 p 51 p 100 p 335 p 258 p 340 p 342	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575	# # # #
AD-A263240 AD-A263498 AD-A263544 AD-A263559 AD-A263559 AD-A263874 AD-A263875 AD-A264021 AD-A264022 AD-A264025	P 3	34 54 22 34 36 30 53 53 40 40	N93-29620 N93-30590 N93-29340 N93-29820 N93-30588 N93-29915 N93-29888 N93-29888 N93-30026 N93-30027 N93-30023	#######################################	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0976TR AFOSR-92-0997TR AFOSR-92-1019TR AFOSR-92-8841TR AFOSR-93-0024TR	p 135 p 121 p 130 p 224 p 235 p 53 p 225 p 221	N93-20326 N93-18006 N93-17820 N93-23479 N93-24067 N93-14782 N93-24297	##########	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0053 AL-TP-1992-0054 AL-TP-1992-0063 AL-TP-1993-0010 AL-TP-1993-0011	p 51 p 51 p 100 p 335 p 258 p 340 p 342 p 340	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-30026	# # # # #
AD-A263240 AD-A263458 AD-A263544 AD-A2635544 AD-A263559 AD-A263874 AD-A263875 AD-A264021 AD-A264022 AD-A264069	P 3	34 54 22 34 36 30 53 53 40 40 41 53	N93-29620 N93-30590 N93-29340 N93-29820 N93-30588 N93-29915 N93-29888 N93-29889 N93-30026 N93-30027 N93-30033 N93-29924	############	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0950TR AFOSR-92-0997TR AFOSR-92-1019TR AFOSR-92-1019TR AFOSR-93-0024TR AFOSR-93-0027TR AFOSR-93-0027TR AFOSR-93-0028TR	p 135 p 121 p 130 p 224 p 235 p 53 p 225 p 221 p 219	N93-20326 N93-18006 N93-17820 N93-23479 N93-24067 N93-14782 N93-24297 N93-24420	############	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0053 AL-TP-1992-0054 AL-TP-1992-0063 AL-TP-1993-0010 AL-TP-1993-0011 AL-TP-1993-0011	p 51 p 51 p 100 p 335 p 258 p 340 p 342 p 340	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-30026	#######################################
AD-A263240 AD-A263498 AD-A263498 AD-A263559 AD-A263559 AD-A263874 AD-A264021 AD-A264021 AD-A264069 AD-A264096	p 3	34 54 22 34 36 30 53 40 40 41 53 38	N93-29620 N93-30590 N93-29340 N93-29820 N93-39588 N93-29888 N93-29888 N93-39889 N93-30026 N93-30027 N93-30033 N93-29924 N93-31094	#############	AFOSR-92-0928TR AFOSR-92-0946TR AFOSSR-92-0950TR AFOSR-92-0950TR AFOSR-92-0976TR AFOSR-92-1019TR AFOSR-92-1019TR AFOSR-93-0024TR AFOSR-93-0024TR AFOSR-93-0028TR AFOSR-93-0028TR	p 135 p 121 p 130 p 224 p 235 p 53 p 225 p 221 p 219 p 217	N93-20326 N93-18006 N93-17820 N93-23479 N93-24067 N93-14782 N93-24297 N93-24420 N93-24420 N93-24247	############	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0053 AL-TP-1992-0054 AL-TP-1992-0063 AL-TP-1993-0010 AL-TP-1993-0011 AL-TP-1993-0011 AL-TR-1991-0110 AL-TR-1991-0110	p 51 p 51 p 100 p 335 p 258 p 340 p 342 p 340 p 31 p 57	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-30026 N93-11559 N93-12662	#######################################
AD-A263240 AD-A263498 AD-A263544 AD-A263559 AD-A263559 AD-A263874 AD-A264021 AD-A264022 AD-A264066 AD-A264099 AD-A264099	P 3	34 54 22 34 36 30 53 53 40 41 53 38 37	N93-29620 N93-30590 N93-29340 N93-29820 N93-29820 N93-29915 N93-29888 N93-30026 N93-30027 N93-30030 N93-30030 N93-30030 N93-3004 N93-31061	#############	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0976TR AFOSR-92-0997TR AFOSR-92-1019TR AFOSR-92-8841TR AFOSR-93-0024TR AFOSR-93-0024TR AFOSR-93-0028TR AFOSR-93-0028TR AFOSR-93-0031TR AFOSR-93-0043TR	p 135 p 121 p 130 p 224 p 235 p 53 p 225 p 221 p 219 p 217 p 261	N93-20326 N93-18006 N93-17820 N93-23479 N93-24067 N93-14782 N93-24297 N93-244297 N93-24427 N93-23459 N93-26446	##############	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0053 AL-TP-1992-0054 AL-TP-1992-0063 AL-TP-1993-0010 AL-TP-1993-0011 AL-TR-1991-0110 AL-TR-1991-0111 AL-TR-1992-0014	p 51 p 51 p 100 p 335 p 258 p 340 p 342 p 340 p 31 p 57 p 317	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-30026 N93-11559 N93-12662 N93-28464	###########
AD-A263240 AD-A263498 AD-A263544 AD-A263559 AD-A263874 AD-A263875 AD-A264021 AD-A264021 AD-A264056 AD-A264099 AD-A264099 AD-A264117	P 3	34 54 22 34 36 30 53 40 40 41 53 38 37 35	N93-29620 N93-30590 N93-29340 N93-29820 N93-29915 N93-29888 N93-29889 N93-30026 N93-30027 N93-30027 N93-30033 N93-29924 N93-31094 N93-31061 N93-30192	###############	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0976TR AFOSR-92-097TR AFOSR-92-1019TR AFOSR-92-1019TR AFOSR-93-0024TR AFOSR-93-0024TR AFOSR-93-0027TR AFOSR-93-0031TR AFOSR-93-0031TR AFOSR-93-0031TR AFOSR-93-0043TR AFOSR-93-0050TR	p 135 p 121 p 130 p 224 p 235 p 53 p 225 p 221 p 219 p 217 p 261 p 260	N93-20326 N93-18006 N93-17820 N93-23479 N93-24467 N93-14782 N93-24297 N93-24247 N93-24247 N93-23459 N93-26446 N93-26349	###############	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0053 AL-TP-1992-0054 AL-TP-1992-0063 AL-TP-1993-0010 AL-TP-1993-0011 AL-TR-1991-0110 AL-TR-1991-0110 AL-TR-1992-0011 AL-TR-1992-0014 AL-TR-1992-0014	p 51 p 51 p 100 p 335 p 258 p 340 p 342 p 340 p 31 p 57 p 317 p 104	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-30026 N93-11559 N93-12662 N93-12662 N93-12644 N93-16033	##########
AD-A263240 AD-A263498 AD-A263598 AD-A263559 AD-A263598 AD-A263874 AD-A264021 AD-A264021 AD-A264059 AD-A264069 AD-A264099 AD-A264117 AD-A264127	p 3	34 54 22 34 336 330 553 553 40 40 41 553 38 37 355 35	N93-29620 N93-30590 N93-29340 N93-29820 N93-29820 N93-29888 N93-29889 N93-30026 N93-30027 N93-30033 N93-29924 N93-31061 N93-31061 N93-3192 N93-3196	##############	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0950TR AFOSR-92-0997TR AFOSR-92-1019TR AFOSR-93-0024TR AFOSR-93-0027TR AFOSR-93-0028TR AFOSR-93-0028TR AFOSR-93-0031TR AFOSR-93-0043TR AFOSR-93-0050TR AFOSR-93-005	p 135 p 121 p 130 p 224 p 235 p 53 p 225 p 221 p 219 p 217 p 261 p 260 p 260	N93-20326 N93-18006 N93-17820 N93-23479 N93-24067 N93-24297 N93-24297 N93-24420 N93-24420 N93-26446 N93-26349 N93-26349	.并并并并并并并并并并并并并	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0053 AL-TP-1992-0054 AL-TP-1993-0010 AL-TP-1993-0011 AL-TR-1993-0011 AL-TR-1992-0011 AL-TR-1992-0014 AL-TR-1992-0033 AL-TR-1992-0039	p 51 p 51 p 100 p 335 p 258 p 340 p 342 p 340 p 31 p 57 p 317 p 104 p 66	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-30026 N93-11559 N93-12662 N93-28464 N93-16033 N93-13874	############
AD-A263240 AD-A263498 AD-A263544 AD-A2635598 AD-A263579 AD-A263875 AD-A264021 AD-A264022 AD-A264026 AD-A264096 AD-A264099 AD-A264117 AD-A264127 AD-A264127 AD-A264162	p 3 p 3 p 3 p 3 p 3 p 3 p 3 p 3 p 3 p 3	34 554 522 336 330 533 533 440 441 533 335 335 335	N93-29620 N93-30590 N93-29340 N93-29820 N93-29820 N93-29915 N93-29888 N93-30026 N93-30027 N93-30030 N93-30031 N93-31094 N93-31094 N93-31094 N93-30196 N93-30196 N93-30196	并并并并并并并并并并并并并并	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0976TR AFOSR-92-0997TR AFOSR-92-1019TR AFOSR-92-8841TR AFOSR-93-0024TR AFOSR-93-0024TR AFOSR-93-0028TR AFOSR-93-0031TR AFOSR-93-0031TR AFOSR-93-0055TR AFOSR-93-0055TR	p 135 p 121 p 130 p 224 p 235 p 53 p 225 p 221 p 219 p 217 p 260 p 260 p 260	N93-20326 N93-18006 N93-17820 N93-23479 N93-24067 N93-24297 N93-242427 N93-242427 N93-23459 N93-26446 N93-26349 N93-26436 N93-26436	.并并并并并并并并并并并并并并	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0054 AL-TP-1992-0053 AL-TP-1992-0063 AL-TP-1993-0010 AL-TP-1993-0011 AL-TR-1991-0110 AL-TR-1992-0014 AL-TR-1992-0033 AL-TR-1992-0049 AL-TR-1992-0049 AL-TR-1992-0049	p 51 p 51 p 100 p 335 p 258 p 340 p 342 p 340 p 31 p 57 p 57 p 104 p 66 p 353	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-30266 N93-11559 N93-12662 N93-18603 N93-13874 N93-29889	#############
AD-A263240 AD-A263498 AD-A263598 AD-A263559 AD-A263598 AD-A263874 AD-A264021 AD-A264021 AD-A264059 AD-A264069 AD-A264099 AD-A264117 AD-A264127	p 3	34 554 522 336 330 533 533 440 441 533 335 335 335	N93-29620 N93-30590 N93-29340 N93-29820 N93-29820 N93-29888 N93-29889 N93-30026 N93-30027 N93-30033 N93-29924 N93-31061 N93-31061 N93-3192 N93-3196	#################	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0976TR AFOSR-92-097TR AFOSR-92-1019TR AFOSR-92-1019TR AFOSR-93-0024TR AFOSR-93-0024TR AFOSR-93-0027TR AFOSR-93-0021TR AFOSR-93-0043TR AFOSR-93-0043TR AFOSR-93-0055TR AFOSR-93-0055TR AFOSR-93-0055TR AFOSR-93-0056TR	p 135 p 121 p 130 p 224 p 235 p 53 p 225 p 221 p 219 p 217 p 260 p 260 p 260 p 261	N93-20326 N93-18006 N93-17820 N93-23479 N93-24067 N93-24297 N93-24227 N93-24247 N93-23459 N93-26446 N93-26339 N93-26435 N93-26521	.并并并并并并并并并并并并并并并	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0053 AL-TP-1992-0054 AL-TP-1993-0010 AL-TP-1993-0011 AL-TR-1993-0011 AL-TR-1992-0011 AL-TR-1992-0014 AL-TR-1992-0033 AL-TR-1992-0039	p 51 p 51 p 100 p 335 p 258 p 340 p 342 p 340 p 31 p 57 p 57 p 104 p 66 p 353	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-30026 N93-11559 N93-12662 N93-28464 N93-16033 N93-13874	############
AD-A263240 AD-A263498 AD-A263544 AD-A2635598 AD-A263579 AD-A263875 AD-A264021 AD-A264022 AD-A264026 AD-A264096 AD-A264099 AD-A264117 AD-A264127 AD-A264127 AD-A264162	p 3 p 3 p 3 p 3 p 3 p 3 p 3 p 3 p 3 p 3	34 54 52 33 36 30 53 53 53 40 41 53 33 53 34 36 36 37 33 36 36 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38	N93-29620 N93-30590 N93-29340 N93-29820 N93-29820 N93-29915 N93-29888 N93-30026 N93-30027 N93-30030 N93-30031 N93-31094 N93-31094 N93-31094 N93-30196 N93-30196 N93-30196	并并并并并并并并并并并并并并并并并	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0950TR AFOSR-92-0950TR AFOSR-92-1019TR AFOSR-92-8841TR AFOSR-93-0024TR AFOSR-93-0027TR AFOSR-93-0028TR AFOSR-93-0028TR AFOSR-93-0043TR AFOSR-93-0050TR AFOSR-93-0050TR AFOSR-93-0055TR AFOSR-93-0056TR AFOSR-93-0056TR AFOSR-93-0056TR AFOSR-93-0056TR	p 135 p 121 p 130 p 224 p 235 p 53 p 225 p 221 p 219 p 217 p 260 p 260 p 260 p 261 p 261	N93-20326 N93-18006 N93-17820 N93-23479 N93-24067 N93-24297 N93-242427 N93-242427 N93-23459 N93-26446 N93-26349 N93-26436 N93-26436	.并并并并并并并并并并并并并并	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0054 AL-TP-1992-0053 AL-TP-1992-0063 AL-TP-1993-0010 AL-TP-1993-0011 AL-TR-1991-0110 AL-TR-1992-0014 AL-TR-1992-0033 AL-TR-1992-0049 AL-TR-1992-0049 AL-TR-1992-0049	p 51 p 51 p 100 p 335 p 258 p 340 p 342 p 340 p 31 p 57 p 317 p 317 p 104 p 66 p 353 p 131	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-130026 N93-11559 N93-12662 N93-12662 N93-16033 N93-13874 N93-29889 N93-17857	#############
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AD-A263240 AD-A263498 AD-A263549 AD-A263559 AD-A263579 AD-A263875 AD-A264021 AD-A264022 AD-A264056 AD-A264096 AD-A264099 AD-A264179 AD-A264127 AD-A264127 AD-A264127 AD-A264129 AD-A264129	p 3 p 3 p 3 p 3 p 3 p 3 p 3 p 3 p 3 p 3	34 54 522 336 330 553 540 441 538 355 334 336 337 331	N93-29620 N93-30590 N93-29340 N93-29820 N93-29820 N93-29888 N93-29889 N93-30026 N93-30027 N93-30033 N93-29924 N93-31094 N93-31094 N93-31095 N93-30195 N93-30882 N93-30882 N93-30884 N93-30884	并并并并并并并并并并并并并并并并并并	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0976TR AFOSR-92-0977TR AFOSR-92-097TR AFOSR-92-1019TR AFOSR-92-0024TR AFOSR-93-0024TR AFOSR-93-0024TR AFOSR-93-0031TR AFOSR-93-0031TR AFOSR-93-0055TR AFOSR-93-0056TR AFOSR-93-0056TR AFOSR-93-0056TR AFOSR-93-0060TR AFOSR-93-0060TR AFOSR-93-0060TR AFOSR-93-0060TR AFOSR-93-0060TR AFOSR-93-0060TR	p 135 p 121 p 130 p 224 p 235 p 53 p 225 p 221 p 219 p 217 p 260 p 260 p 260 p 261 p 261 p 259	N93-20326 N93-18006 N93-17820 N93-23479 N93-24067 N93-24297 N93-24420 N93-24247 N93-26446 N93-26436 N93-26436 N93-26436 N93-26436 N93-26436 N93-26436 N93-26436 N93-26436 N93-26436	.并并并并并并并并并并并并并并并并并	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0054 AL-TP-1992-0053 AL-TP-1992-0063 AL-TP-1993-0010 AL-TP-1993-0011 AL-TR-1993-0011 AL-TR-1992-0014 AL-TR-1992-0014 AL-TR-1992-0049 AL-TR-1992-0066 AL-TR-1992-0066 AL-TR-1992-0068 AL-TR-1992-0068	p 51 p 50 p 335 p 258 p 340 p 342 p 340 p 31 p 57 p 317 p 104 p 66 p 353 p 131 p 50 p 288	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-3026 N93-11559 N93-12662 N93-12662 N93-16033 N93-13874 N93-29889 N93-17857 N93-12905 N93-28307	################
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AD-A263240 AD-A263498 AD-A263598 AD-A263559 AD-A263875 AD-A264021 AD-A264021 AD-A264069 AD-A264099 AD-A264099 AD-A264127 AD-A264127 AD-A264127 AD-A264127 AD-A264127 AD-A2641293 AD-A264308 AD-A264308 AD-A264308 AD-A264308	p 3	34 54 52 33 33 53 53 40 40 41 53 33 53 33 53 33 53 33 53 34 36 37 33 37 33 36 37 37 37 37 37 37 37 37 37 37 37 37 37	N93-29620 N93-30590 N93-29340 N93-29820 N93-29820 N93-29888 N93-29889 N93-30026 N93-30027 N93-30033 N93-39024 N93-31061 N93-31061 N93-31061 N93-30192 N93-3196 N93-30882 N93-30882 N93-30884 N93-30894 N93-30894 N93-30896	#######################################	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0976TR AFOSR-92-0977TR AFOSR-92-0971TR AFOSR-92-1019TR AFOSR-92-1019TR AFOSR-93-0024TR AFOSR-93-0024TR AFOSR-93-0031TR AFOSR-93-0031TR AFOSR-93-0055TR AFOSR-93-0056TR AFOSR-93-0056TR AFOSR-93-0050TR AFOSR-93-0050TR AFOSR-93-0050TR AFOSR-93-0050TR AFOSR-93-0055TR	P 135 P 121 P 130 P 224 P 235 P 235 P 225 P 221 P 217 P 261 P 260 P 260 P 261 P 261 P 259 P 260 P 260	N93-20326 N93-18006 N93-17820 N93-24407 N93-24067 N93-24297 N93-24420 N93-24420 N93-26446 N93-26349 N93-26436 N93-26436 N93-26436 N93-26436 N93-26436 N93-26391	. 并并并并并并并并并并并并并并并并并并并并	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0054 AL-TP-1992-0053 AL-TP-1992-0063 AL-TP-1993-0010 AL-TP-1993-0011 AL-TR-1992-0011 AL-TR-1992-0014 AL-TR-1992-0014 AL-TR-1992-0066 AL-TR-1992-0066 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0088 AL-TR-1992-0088 AL-TR-1992-0010 AL-TR-1992-0010 AL-TR-1992-0010	p 51 p 51 p 100 p 335 p 258 p 340 p 342 p 340 p 31 p 57 p 317 p 104 p 66 p 353 p 131 p 50 p 285 p 285 p 246 p 340	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-12662 N93-11559 N93-12662 N93-18603 N93-13874 N93-29889 N93-17857 N93-29889 N93-29889 N93-29889 N93-29889 N93-29889 N93-29889	###### #############
AD-A263240 AD-A263498 AD-A263598 AD-A263598 AD-A263598 AD-A263874 AD-A264021 AD-A264022 AD-A264099 AD-A264099 AD-A264197 AD-A264127 AD-A264127 AD-A264127 AD-A2641293 AD-A264188 AD-A264188 AD-A264188 AD-A264263 AD-A264388 AD-A264388 AD-A264338 AD-A264338 AD-A264338 AD-A264367	p 3:	34 54 52 33 33 53 53 40 40 41 53 33 53 33 53 33 53 33 53 33 53 33 53 33 53 33 53 33 53 33 53 5	N93-29620 N93-30590 N93-29340 N93-29820 N93-29915 N93-29888 N93-29889 N93-30026 N93-30027 N93-30030 N93-31094 N93-31094 N93-31094 N93-30192 N93-30894 N93-30894 N93-30894 N93-30894 N93-30897 N93-30160 N93-30163 N93-26089	并并并并并并并并并并并并并并并并并并并并并	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0976TR AFOSR-92-0976TR AFOSR-92-1019TR AFOSR-92-1019TR AFOSR-93-0024TR AFOSR-93-0024TR AFOSR-93-0027TR AFOSR-93-0027TR AFOSR-93-0045TR AFOSR-93-0045TR AFOSR-93-0055TR AFOSR-93-0056TR AFOSR-93-0056TR AFOSR-93-0056TR AFOSR-93-0076TR AFOSR-93-0076TR AFOSR-93-0076TR AFOSR-93-0076TR AFOSR-93-0076TR AFOSR-93-0084TR AFOSR-93-0085TR AFOSR-93-0086TR AFOSR-93-0086TR AFOSR-93-0086TR AFOSR-93-0086TR	P 135 P 121 P 130 P 224 P 235 P 53 P 225 P 221 P 217 P 260 P 260 P 260 P 261 P 259 P 259 P 259 P 260 P 260 P 260 P 260 P 260 P 261 P 261 P 260 P	N93-20326 N93-18006 N93-17820 N93-23479 N93-24067 N93-24297 N93-242427 N93-242427 N93-26446 N93-26436 N93-26436 N93-26436 N93-26436 N93-26436 N93-26437 N93-26347 N93-26347 N93-26347 N93-26347 N93-26391 N93-26391 N93-26364	. 并并并并并并并并并并并并并并并并并并并并并	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0053 AL-TP-1992-0054 AL-TP-1992-0053 AL-TP-1993-0010 AL-TP-1993-0011 AL-TR-1993-0011 AL-TR-1992-0011 AL-TR-1992-0014 AL-TR-1992-0033 AL-TR-1992-0049 AL-TR-1992-0066 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0088 AL-TR-1992-0192 AL-TR-1992-0112	p 51 p 51 p 100 p 335 p 258 p 340 p 340 p 340 p 340 p 317 p 57 p 317 p 104 p 66 p 353 p 131 p 50 p 288 p 359 p 240 p 265	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-30266 N93-11559 N93-12662 N93-18644 N93-16033 N93-13874 N93-29889 N93-17857 N93-28307 N93-29888 N93-26259 N93-26259 N93-25787	###### ##############
AD-A263240 AD-A263498 AD-A263598 AD-A263559 AD-A263875 AD-A264021 AD-A264021 AD-A264069 AD-A264099 AD-A264099 AD-A264127 AD-A264127 AD-A264127 AD-A264127 AD-A264127 AD-A2641293 AD-A264308 AD-A264308 AD-A264308 AD-A264308	p 3	34 54 522 34 36 33 53 35 33 35 33 33 33 33 33 33 33 33	N93-29620 N93-30590 N93-29340 N93-29820 N93-29820 N93-29888 N93-29889 N93-30026 N93-30027 N93-30033 N93-39024 N93-31061 N93-31061 N93-31061 N93-30192 N93-3196 N93-30882 N93-30882 N93-30884 N93-30894 N93-30894 N93-30896	并并并并并并并并并并并并并并并并并并并并并并并	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0950TR AFOSR-92-0950TR AFOSR-92-1019TR AFOSR-92-1019TR AFOSR-93-0024TR AFOSR-93-0022TR AFOSR-93-0025TR AFOSR-93-0031TR AFOSR-93-0050TR AFOSR-93-0080TR AFOSR-93-0080TR AFOSR-93-0080TR AFOSR-93-0080TR AFOSR-93-0093TR AFOSR-93-0093TR AFOSR-93-0093TR	P 135 P 121 P 130 P 224 P 235 P 53 P 225 P 221 P 217 P 260 P 260 P 260 P 259 P 259 P 259 P 260 P	N93-20326 N93-18006 N93-17820 N93-23479 N93-24067 N93-24297 N93-24420 N93-264297 N93-26439 N93-26349 N93-26349 N93-26349 N93-26349 N93-26349 N93-26352 N93-26356 N93-263634 N93-263634 N93-263634 N93-26364 N93-26364	. 并并并并并并并并并并并并并并并并并并并并并并	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0053 AL-TP-1992-0053 AL-TP-1992-0053 AL-TP-1993-0010 AL-TP-1993-0011 AL-TR-1993-0011 AL-TR-1992-0011 AL-TR-1992-0014 AL-TR-1992-0033 AL-TR-1992-0061 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0083 AL-TR-1992-0088 AL-TR-1992-0084 AL-TR-1992-0084 AL-TR-1992-0101 AL-TR-1992-01127 AL-TR-1992-0127 AL-TR-1992-0132 AL-TR-1992-0132	p 51 p 51 p 100 p 335 p 258 p 340 p 340 p 31 p 57 p 317 p 104 p 66 p 353 p 131 p 50 p 353 p 131 p 50 p 346 p 347 p 347 p 348 p 348 p 349 p	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-30026 N93-11559 N93-12662 N93-12662 N93-128464 N93-16033 N93-13874 N93-29889 N93-17857 N93-29888 N93-26259 N93-26259 N93-30027 N93-25787 N93-18273	######################################
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AD-A263240 AD-A263498 AD-A263598 AD-A263598 AD-A263598 AD-A263874 AD-A264021 AD-A264022 AD-A264099 AD-A264099 AD-A264197 AD-A264127 AD-A264127 AD-A264127 AD-A2641293 AD-A26438 AD-A26438 AD-A26438 AD-A26438 AD-A26438 AD-A26438 AD-A264401 AD-A264401 AD-A264401 AD-A264401 AD-A264401 AD-A264401 AD-A264401 AD-A264401 AD-A264401 AD-A264401 AD-A264401 AD-A264401 AD-A264401 AD-A264401 AD-A264401 AD-A264408	p 3	34 54 522 34 36 35 53 36 55 37 33 33 33 33 33 33 33 33 33 33 33 33	N93-29620 N93-3950 N93-29340 N93-29820 N93-29889 N93-29889 N93-30026 N93-30027 N93-30027 N93-3003 N93-29924 N93-31061 N93-30192 N93-30192 N93-30195 N93-30897 N93-30897 N93-30160 N93-30163 N93-26089 N93-30163 N93-26089 N93-30163 N93-26089 N93-30163 N93-26089 N93-30163 N93-26089 N93-30163 N93-3035 N93-3035 N93-30421	并并并并并并并并并并并并并并并并并并并并 并	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0976TR AFOSR-92-0977TR AFOSR-92-0977TR AFOSR-92-1019TR AFOSR-92-1019TR AFOSR-93-0024TR AFOSR-93-0024TR AFOSR-93-0031TR AFOSR-93-0050TR AFOSR-93-0085TR AFOSR-93-0085TR AFOSR-93-0085TR AFOSR-93-0085TR AFOSR-93-0085TR AFOSR-93-0093TR AFOSR-93-0031TR AFOSR-93-0134TR AFOSR-93-0136TR	P 135 P 121 P 130 P 224 P 235 P 235 P 225 P 221 P 261 P 260 P 260 P 260 P 269 P 269 P 260 P 260	N93-20326 N93-18006 N93-17820 N93-24067 N93-24067 N93-24297 N93-24420 N93-24247 N93-264247 N93-26349 N93-26346 N93-26346 N93-26347 N93-2649 N93-26391 N93-26366 N93-26368 N93-26368 N93-26364 N93-26368 N93-26368	- 并并并并并并并并并并并并并并并并并并并并并并并	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0053 AL-TP-1992-0053 AL-TP-1992-0053 AL-TP-1993-0010 AL-TP-1993-0011 AL-TP-1993-0011 AL-TR-1993-0011 AL-TR-1992-0014 AL-TR-1992-0014 AL-TR-1992-0053 AL-TR-1992-0066 AL-TR-1992-0066 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-007 AL-TR-1992-007 AL-TR-1993-0088 AL-TR-1993-0088 AL-TR-1993-0088 AL-TR-1993-0088 AL-TR-1993-0088 AL-TR-1993-0088 AL-TR-1993-0088 AL-TR-1993-0088 AL-TR-1993-0098 AL-TR-1993-0098 AL-TR-1993-0098 AL-TR-1993-0098	p 51 p 51 p 100 p 335 p 258 p 342 p 340 p 31 p 57 p 317 p 104 p 66 p 353 p 131 p 588 p 340 p 265 p 132 p 132 p 265 p 132 p 132 p 134 p 134 p 135 p 136 p 136	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-12662 N93-12662 N93-12662 N93-18603 N93-13874 N93-12905 N93-12905 N93-29888 N93-29888 N93-29888 N93-29888 N93-29888 N93-29888 N93-29888 N93-29888 N93-29888 N93-29888 N93-29888 N93-29888 N93-2050050 N93-30050	并并并并并 并并并并并并并并并并并并并
AD-A263240 AD-A263498 AD-A263598 AD-A263598 AD-A263598 AD-A263874 AD-A264021 AD-A264021 AD-A264056 AD-A264069 AD-A264069 AD-A264069 AD-A264117 AD-A264117 AD-A264179 AD-A264179 AD-A26418 AD-A264367 AD-A264367 AD-A264367 AD-A26438 AD-A26438 AD-A264415 AD-A264401 AD-A264401 AD-A264401 AD-A264401 AD-A264401 AD-A264401 AD-A264401 AD-A264401 AD-A264401 AD-A264401 AD-A264401 AD-A264403 AD-A264401 AD-A264403 AD-A264403 AD-A264403 AD-A264403 AD-A264403 AD-A264403 AD-A264403	p 3:	34 54 522 336 330 533 540 441 538 337 335 337 337 337 337 337 337 337 337	N93-29620 N93-30590 N93-29340 N93-29820 N93-29820 N93-29888 N93-29889 N93-30026 N93-30027 N93-30033 N93-30033 N93-30924 N93-31061 N93-30192 N93-30196 N93-30196 N93-30163 N93-30818 N93-30818 N93-30816 N93-30167 N93-30167 N93-30167 N93-30167 N93-30421	并并并并并并并并并并并并并并并并并并并并并 并并	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0950TR AFOSR-92-0950TR AFOSR-92-1019TR AFOSR-92-1019TR AFOSR-93-0024TR AFOSR-93-0024TR AFOSR-93-0027TR AFOSR-93-0027TR AFOSR-93-0031TR AFOSR-93-0050TR	P 135 P 121 P 130 P 1224 P 235 P 53 P 221 P 217 P 261 P 260 P 261 P 261 P 261 P 261 P 261 P 261	N93-20326 N93-18006 N93-17820 N93-23479 N93-24067 N93-24297 N93-24227 N93-24227 N93-26446 N93-26349 N93-26349 N93-26349 N93-26349 N93-26367 N93-26367 N93-26367 N93-26367 N93-26391 N93-26391 N93-26391 N93-26391 N93-26391 N93-26391 N93-26391 N93-26391 N93-26391 N93-26391 N93-26391 N93-26391 N93-26391 N93-26391 N93-26391 N93-26391	. 并并并并并并并并并并并并并并并并并并并并并并并并	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0053 AL-TP-1992-0054 AL-TP-1993-0010 AL-TP-1993-0010 AL-TP-1993-0011 AL-TR-1993-0011 AL-TR-1992-0014 AL-TR-1992-0014 AL-TR-1992-0056 AL-TR-1992-0056 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0069	P 51 P 51 P 100 P 335 P 258 P 342 P 340 P 31 P 57 P 317 P 104 P 66 P 353 P 131 P 50 P 246 P 346 P 347 P 346 P 347 P 347 P 348 P 348 P 348 P 348 P 348 P 349 P 349	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-30026 N93-11559 N93-12662 N93-12662 N93-28464 N93-16033 N93-13874 N93-29889 N93-17857 N93-29888 N93-26259 N93-30027 N93-29888 N93-26259 N93-30027 N93-29050 N93-30027 N93-29050 N93-30027	并并并并并 并并并并并并并并并并并并并并
AD-A263240 AD-A263498 AD-A263598 AD-A263598 AD-A263874 AD-A264021 AD-A264021 AD-A264096 AD-A264096 AD-A264099 AD-A264117 AD-A264162 AD-A264162 AD-A264293 AD-A264393 AD-A264338 AD-A264438	p 3	34 54 522 336 330 533 540 441 538 337 335 337 335 341 67 358 367 367 367 367 367 367 367 367 367 367	N93-29620 N93-30590 N93-29340 N93-29820 N93-29820 N93-29888 N93-29889 N93-30026 N93-30027 N93-30037 N93-30037 N93-30194 N93-31061 N93-30153 N93-30882 N93-30882 N93-30882 N93-30881 N93-30881 N93-30894 N93-30160 N93-30163 N93-2089 N93-30163 N93-30422 N93-30425	并并并并并并并并并并并并并并并并并并并并并并 并并并	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0976TR AFOSR-92-097TR AFOSR-92-1019TR AFOSR-92-1019TR AFOSR-92-8841TR AFOSR-93-0024TR AFOSR-93-0027TR AFOSR-93-0031TR AFOSR-93-0031TR AFOSR-93-0055TR AFOSR-93-0056TR AFOSR-93-0027TR AFOSR-93-0217TR AFOSR-93-0217TR	P 135 P 121 P 130 P 224 P 235 P 225 P 221 P 217 P 261 P 260 P 260 P 260 P 261 P 259 P 259 P 260 P 260 P 260 P 260 P 261 P 259 P 260 P 260 P 261 P 267	N93-20326 N93-18006 N93-17820 N93-24067 N93-24067 N93-24297 N93-24227 N93-242427 N93-26349 N93-26346 N93-26349 N93-26435 N93-26435 N93-26436 N93-26307 N93-26307 N93-26307 N93-26307 N93-26307 N93-26307 N93-26307 N93-26307	. 并并并并并并并并并并并并并并并并并并并并并并并并并	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0054 AL-TP-1992-0053 AL-TP-1992-0063 AL-TP-1993-0010 AL-TP-1993-0011 AL-TR-1993-0011 AL-TR-1993-0011 AL-TR-1992-0014 AL-TR-1992-0014 AL-TR-1992-0061 AL-TR-1992-0066 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-011 AL-TR-1993-0068 AL-TR-1993-0068 AL-TR-1993-0068 AL-TR-1993-0068 AL-TR-1993-0168 AL-TR-1993-0168 AL-TR-1993-0168 AL-TR-1993-0171 AL-TR-1993-0171 AL-TR-1993-0171 AL-TR-1993-0171	p 51 p 51 p 100 p 335 p 258 p 342 p 342 p 340 p 31 p 57 p 317 p 50 p 288 p 9 50 p 288 p 9 50 p 288 p 9 50 p 104 p 105 p	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30026 N93-11559 N93-12662 N93-12662 N93-12662 N93-13874 N93-1603 N93-13874 N93-29889 N93-29889 N93-26259 N93-26259 N93-26259 N93-26259 N93-26259 N93-2050 N93-2050 N93-2050 N93-2050 N93-2050 N93-20479	并并并并并 并并并并并并并并并并并并并并并
AD-A263240 AD-A263498 AD-A263598 AD-A263598 AD-A263598 AD-A263874 AD-A264021 AD-A264022 AD-A264099 AD-A264099 AD-A264197 AD-A264127 AD-A264127 AD-A264127 AD-A264260 AD-A26438 AD-A26438 AD-A26438 AD-A26438 AD-A26438 AD-A264493 AD-A264493 AD-A264438 AD-A264438 AD-A264438 AD-A264438 AD-A264438 AD-A264438 AD-A264438 AD-A264438 AD-A264438 AD-A264438 AD-A264438 AD-A264438 AD-A264438 AD-A264438 AD-A264438 AD-A264438 AD-A264438 AD-A264438 AD-A264438	p 3:	34 54 224 336 330 533 534 441 538 335 546 546 553 558 558 558 558 558 558 558 558 558	N93-29620 N93-30590 N93-29340 N93-29820 N93-29820 N93-29889 N93-29889 N93-30026 N93-30027 N93-30033 N93-29924 N93-31061 N93-30192 N93-30192 N93-30193 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30163 N93-30163 N93-30163 N93-30425 N93-30425 N93-30425 N93-30425 N93-30425	并并并并并并并并并并并并并并并并并并并并并 并并并并	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0976TR AFOSR-92-0976TR AFOSR-92-0971TR AFOSR-92-1019TR AFOSR-92-1019TR AFOSR-93-0024TR AFOSR-93-0024TR AFOSR-93-0027TR AFOSR-93-0027TR AFOSR-93-0045TR AFOSR-93-0045TR AFOSR-93-0055TR AFOSR-93-0075TR AFOSR-93-0136TR AFOSR-93-0136TR AFOSR-93-0137TR AFOSR-93-0217TR AFOSR-93-0217TR AFOSR-93-0217TR AFOSR-93-0217TR AFOSR-93-0217TR	P 135 P 121 P 224 P 235 P 225 P 221 P 217 P 261 P 260 P 260 P 261 P 259 P 260 P 260	N93-20326 N93-18006 N93-17820 N93-24067 N93-24067 N93-24297 N93-24420 N93-24247 N93-26446 N93-26349 N93-26436 N93-26436 N93-26436 N93-26357 N93-26364 N93-26364 N93-26364 N93-26364 N93-26391 N93-26364 N93-26391	. 并并并并并并并并并并并并并并并并并并并并并并并并并并并	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0053 AL-TP-1992-0053 AL-TP-1992-0053 AL-TP-1993-0010 AL-TP-1993-0011 AL-TP-1993-0011 AL-TP-1993-0011 AL-TP-1993-0011 AL-TP-1993-0014 AL-TR-1992-0014 AL-TR-1992-0014 AL-TR-1992-0058 AL-TR-1992-0066 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0101 AL-TR-1992-0127 AL-TR-1993-0134 AL-TR-1993-0134 AL-TR-1992-0136 AL-TR-1992-0136 AL-TR-1992-0136 AL-TR-1992-0168 AL-TR-1992-0171 AL-TR-1992-0171 AL-TR-1993-0008 AL-TR-1993-0008 AL-TR-1993-0008 AL-TR-1993-0008	p 51 p 51 p 100 p 335 p 258 p 342 p 342 p 340 p 317 p 57 p 104 p 66 p 353 p 131 p 50 p 353 p 131 p 132 p 132 p 132 p 132 p 133 p 134 p 135 p 135 p 136 p 1	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-12662 N93-12662 N93-12662 N93-18603 N93-13874 N93-19889 N93-17857 N93-29889 N93-29889 N93-29889 N93-29889 N93-29889 N93-29889 N93-30027 N93-29889 N93-30425 N93-30425 N93-30425 N93-30425 N93-30425 N93-30425 N93-29400	并并并并并 并并并并并并并并并并并并并并并并并
AD-A263240 AD-A263498 AD-A263598 AD-A263598 AD-A263598 AD-A263874 AD-A264021 AD-A264022 AD-A264056 AD-A264069 AD-A264069 AD-A264069 AD-A264177 AD-A264179 AD-A264162 AD-A264179 AD-A264180 AD-A264180 AD-A264418 AD-A264384 AD-A264384 AD-A264438 AD-A264438 AD-A264438 AD-A264439 AD-A264439 AD-A264439 AD-A264439 AD-A264439 AD-A2644534 AD-A2644534 AD-A2644534 AD-A2644534 AD-A264439 AD-A264439 AD-A2644553	p 3:	34 54 224 336 330 335 538 337 538 337 337 337 337 337 337 337 337 337 3	N93-29620 N93-30590 N93-29340 N93-29820 N93-29820 N93-29889 N93-29889 N93-30026 N93-30027 N93-30033 N93-30033 N93-30033 N93-30164 N93-30169 N93-30421 N93-30422 N93-30422 N93-30420 N93-30400 N93-30382	并并并并并并并并并并并并并并并并并并并并并 非并并并	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0950TR AFOSR-92-0950TR AFOSR-92-0997TR AFOSR-92-1019TR AFOSR-92-1019TR AFOSR-93-0024TR AFOSR-93-0024TR AFOSR-93-0027TR AFOSR-93-0025TR AFOSR-93-0031TR AFOSR-93-0050TR AFOSR-93-0050TR AFOSR-93-0056TR AFOSR-93-0027TR AFOSR-93-00242TR AFOSR-93-0252TR	P 135 P 121 P 130 P 224 P 235 P 225 P 2219 P 217 P 260 P 261 P 259 P 260 P 260 P 261 P 261 P 260 P 261	N93-20326 N93-18006 N93-17820 N93-24407 N93-244207 N93-244207 N93-244207 N93-26446 N93-26349 N93-26349 N93-26349 N93-26349 N93-26356 N93-26356 N93-26357 N93-26367 N93-26364 N93-26364 N93-26364 N93-26364 N93-26364 N93-26364 N93-26364 N93-26399 N93-36364 N93-26349 N93-36364 N93-26391 N93-26391 N93-26391 N93-26391 N93-26391 N93-26391 N93-26391 N93-26391	. 并并并并并并并并并并并并并并并并并并并并并并并并并并并并	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0053 AL-TP-1992-0054 AL-TP-1993-0010 AL-TP-1993-0010 AL-TP-1993-0011 AL-TR-1993-0011 AL-TR-1993-0011 AL-TR-1993-0014 AL-TR-1992-0014 AL-TR-1992-0056 AL-TR-1992-0056 AL-TR-1992-0056 AL-TR-1992-0058 AL-TR-1993-0058 AL-TR-1993-0008 AL-TR-1993-0008 AL-TR-1993-0008 AL-TR-1993-0008	p 51 p 51 p 100 p 335 p 258 p 258 p 342 p 340 p 342 p 340 p 31 p 57 p 104 p 66 p 353 p 246 p 353 p 246 p 340 p 342 p 342 p 343 p 343 p 343 p 344 p 346 p 346	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-30026 N93-11559 N93-12662 N93-12662 N93-28464 N93-16033 N93-13874 N93-29889 N93-17857 N93-29888 N93-26259 N93-30027 N93-29888 N93-26259 N93-30027 N93-29888 N93-26259 N93-30027 N93-29450 N93-30425 N93-30425 N93-30425 N93-30425 N93-30425	并并并并并 计并并并并并并并并并并并并并并并并并
AD-A263240 AD-A263498 AD-A263598 AD-A263598 AD-A263874 AD-A264021 AD-A264021 AD-A264096 AD-A264096 AD-A264099 AD-A264117 AD-A264162 AD-A264169 AD-A264179 AD-A264293 AD-A264393 AD-A264393 AD-A264393 AD-A264393 AD-A264494 AD-A264494 AD-A264494 AD-A264493 AD-A264494 AD-A264493 AD-A264494 AD-A264493 AD-A264493 AD-A264494 AD-A264495 AD-A264495 AD-A264495	p 3:	34 54 224 336 330 335 337 335 337 335 337 335 337 335 337 337	N93-29620 N93-30590 N93-29340 N93-29820 N93-29820 N93-29889 N93-29889 N93-30026 N93-30027 N93-30033 N93-29924 N93-31061 N93-30192 N93-30192 N93-30193 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30163 N93-30163 N93-30163 N93-30425 N93-30425 N93-30425 N93-30425 N93-30425	并并并并并并并并并并并并并并并并并并并并并并 并并并并并并	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0976TR AFOSR-92-0977TR AFOSR-92-0977TR AFOSR-92-1019TR AFOSR-92-1019TR AFOSR-93-0024TR AFOSR-93-0024TR AFOSR-93-0031TR AFOSR-93-0054TR AFOSR-93-0055TR AFOSR-93-0056TR AFOSR-93-0050TR AFOSR-93-0021TR AFOSR-93-0217TR AFOSR-93-0227TR AFOSR-93-0252TR AFOSR-93-0255TR	P 135 P 121 P 130 P 224 P 235 P 225 P 2219 P 217 P 261 P 260 P 260 P 260 P 261 P 259 P 260 P 260 P 260 P 260 P 261 P 265 P 265 P 261 P 265 P 2661 P 2665 P 2665 P 2666	N93-20326 N93-18006 N93-17820 N93-24067 N93-24067 N93-24420 N93-24427 N93-24420 N93-26349 N93-26349 N93-26349 N93-26369 N93-26391 N93-26369 N93-26391 N93-26368 N93-26391 N93-26368 N93-26301 N93-26368 N93-26301 N93-26368	. 并并并并并并并并并并并并并并并并并并并并并并并并并并并并并并	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0053 AL-TP-1992-0053 AL-TP-1992-0053 AL-TP-1993-0010 AL-TP-1993-0011 AL-TP-1993-0011 AL-TP-1993-0011 AL-TP-1993-0011 AL-TP-1993-0014 AL-TR-1992-0014 AL-TR-1992-0014 AL-TR-1992-0058 AL-TR-1992-0066 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0101 AL-TR-1992-0127 AL-TR-1993-0134 AL-TR-1993-0134 AL-TR-1992-0136 AL-TR-1992-0136 AL-TR-1992-0136 AL-TR-1992-0168 AL-TR-1992-0171 AL-TR-1992-0171 AL-TR-1993-0008 AL-TR-1993-0008 AL-TR-1993-0008 AL-TR-1993-0008	p 51 p 51 p 100 p 335 p 258 p 258 p 342 p 340 p 342 p 340 p 31 p 57 p 104 p 66 p 353 p 246 p 353 p 246 p 340 p 342 p 342 p 343 p 343 p 343 p 344 p 346 p 346	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-30026 N93-11559 N93-12662 N93-12662 N93-28464 N93-16033 N93-13874 N93-29889 N93-17857 N93-29888 N93-26259 N93-30027 N93-29888 N93-26259 N93-30027 N93-29888 N93-26259 N93-30027 N93-29450 N93-30425 N93-30425 N93-30425 N93-30425 N93-30425	并并并并并 并并并并并并并并并并并并并并并并
AD-A263240 AD-A263498 AD-A263598 AD-A263598 AD-A263874 AD-A264021 AD-A264021 AD-A264096 AD-A264096 AD-A264099 AD-A264117 AD-A264162 AD-A264169 AD-A264179 AD-A264293 AD-A264393 AD-A264393 AD-A264393 AD-A264393 AD-A264494 AD-A264494 AD-A264494 AD-A264493 AD-A264494 AD-A264493 AD-A264494 AD-A264493 AD-A264493 AD-A264494 AD-A264495 AD-A264495 AD-A264495	p 3:	34 54 224 336 330 335 337 335 337 335 337 335 337 335 337 337	N93-29620 N93-30590 N93-29340 N93-29820 N93-29820 N93-29889 N93-29889 N93-30026 N93-30027 N93-30033 N93-30033 N93-30033 N93-30164 N93-30169 N93-30421 N93-30422 N93-30422 N93-30420 N93-30400 N93-30382	并并并并并并并并并并并并并并并并并并并并并 并并并并并并并	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0976TR AFOSR-92-0976TR AFOSR-92-0977TR AFOSR-92-1019TR AFOSR-92-1019TR AFOSR-93-0024TR AFOSR-93-0024TR AFOSR-93-0027TR AFOSR-93-0027TR AFOSR-93-0045TR AFOSR-93-0045TR AFOSR-93-0055TR AFOSR-93-0075TR AFOSR-93-0075TR AFOSR-93-0075TR AFOSR-93-0075TR AFOSR-93-0085TR AFOSR-93-0136TR AFOSR-93-0136TR AFOSR-93-0136TR AFOSR-93-0217TR AFOSR-93-0217TR AFOSR-93-0217TR AFOSR-93-0217TR AFOSR-93-0225TR AFOSR-93-0256TR AFOSR-93-0256TR AFOSR-93-0256TR	P 135 P 1210 P 1300 P 2244 P 235 P 225 P 2219 P 2600 P 2600 P 2611 P 2600 P 260	N93-20326 N93-18006 N93-17820 N93-24407 N93-24427 N93-24427 N93-24247 N93-26446 N93-26446 N93-26436 N93-26349 N93-26349 N93-26349 N93-26365 N93-26367 N93-26367 N93-26367 N93-26367 N93-263649 N93-26788 N93-26449 N93-28759 N93-30904 N93-30904	. 并并并并并并并并并并并并并并并并并并并并并并并并并并并并并并并	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0053 AL-TP-1992-0054 AL-TP-1993-0010 AL-TP-1993-0010 AL-TP-1993-0011 AL-TR-1993-0011 AL-TR-1993-0011 AL-TR-1993-0014 AL-TR-1992-0014 AL-TR-1992-0056 AL-TR-1992-0056 AL-TR-1992-0056 AL-TR-1992-0058 AL-TR-1993-0058 AL-TR-1993-0008 AL-TR-1993-0008 AL-TR-1993-0008 AL-TR-1993-0008	p 51 p 51 p 100 p 335 p 258 p 258 p 342 p 340 p 342 p 340 p 31 p 57 p 104 p 66 p 353 p 246 p 353 p 246 p 340 p 342 p 342 p 343 p 343 p 343 p 344 p 346 p 346	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-30026 N93-11559 N93-12662 N93-12662 N93-28464 N93-16033 N93-13874 N93-29889 N93-17857 N93-29888 N93-26259 N93-30027 N93-29888 N93-26259 N93-30027 N93-29888 N93-26259 N93-30027 N93-29450 N93-30425 N93-30425 N93-30425 N93-30425 N93-30425	并并并并并 计并并并并并并并并并并并并并并并并并
AD-A263240 AD-A263498 AD-A263598 AD-A263598 AD-A263874 AD-A264021 AD-A264021 AD-A264056 AD-A264069 AD-A264069 AD-A264117 AD-A264127 AD-A264127 AD-A264260 AD-A264098 AD-A264162 AD-A26438 AD-A26438 AD-A26438 AD-A26438 AD-A264401 AD-A264438 AD-A264453 AD-A264455 AD-A264553 AD-A264557	p 3:	34 54 224 336 330 335 335 336 337 337 337 337 337 337 337	N93-29620 N93-30590 N93-29340 N93-29820 N93-29820 N93-29889 N93-29889 N93-30026 N93-30027 N93-30033 N93-29924 N93-31094 N93-31094 N93-31092 N93-30192 N93-30818 N93-30818 N93-30818 N93-30819 N93-30163 N93-30163 N93-30422 N93-30425 N93-30425 N93-30425 N93-30425 N93-30425 N93-30425 N93-30420 N93-30421 N93-30425 N93-30425 N93-30420 N93-30382 N93-30420 N93-30382 N93-30421 N93-30425 N93-30420 N93-30382 N93-30421 N93-30421	并并并并并并并并并并并并并并并并并并并并并 并并并并并并并	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0976TR AFOSR-92-0977TR AFOSR-92-0977TR AFOSR-92-1019TR AFOSR-92-1019TR AFOSR-93-0024TR AFOSR-93-0024TR AFOSR-93-0031TR AFOSR-93-0054TR AFOSR-93-0055TR AFOSR-93-0056TR AFOSR-93-0050TR AFOSR-93-0021TR AFOSR-93-0217TR AFOSR-93-0227TR AFOSR-93-0252TR AFOSR-93-0255TR	P 135 P 1210 P 1300 P 2244 P 235 P 225 P 2219 P 2600 P 2600 P 2611 P 2600 P 260	N93-20326 N93-18006 N93-17820 N93-24067 N93-24067 N93-24420 N93-24427 N93-24420 N93-26349 N93-26349 N93-26349 N93-26369 N93-26391 N93-26369 N93-26391 N93-26368 N93-26391 N93-26368 N93-26301 N93-26368 N93-26301 N93-26368	. 并并并并并并并并并并并并并并并并并并并并并并并并并并并并并并并并	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0053 AL-TP-1992-0054 AL-TP-1993-0010 AL-TP-1993-0010 AL-TP-1993-0011 AL-TR-1993-0011 AL-TR-1993-0011 AL-TR-1993-0014 AL-TR-1992-0014 AL-TR-1992-0056 AL-TR-1992-0056 AL-TR-1992-0056 AL-TR-1992-0058 AL-TR-1993-0058 AL-TR-1993-0008 AL-TR-1993-0008 AL-TR-1993-0008 AL-TR-1993-0008	p 51 p 51 p 100 p 335 p 258 p 342 p 342 p 340 p 317 p 57 p 104 p 66 p 353 p 131 p 50 p 353 p 131 p 50 p 353 p 132 p 353 p 132 p 353 p 353	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-30026 N93-11559 N93-12662 N93-12662 N93-12662 N93-12662 N93-12905 N93-13874 N93-29889 N93-17857 N93-29888 N93-26259 N93-26259 N93-30027 N93-29888 N93-26259 N93-30050 N93-30167 N93-30425 N93-30425 N93-294400 N93-30542 N93-29924	并并并并并 计并并并并并并并并并并并并并并并并并
AD-A263240 AD-A263498 AD-A263598 AD-A263598 AD-A263598 AD-A263874 AD-A264021 AD-A264021 AD-A264056 AD-A264069 AD-A264099 AD-A264117 AD-A264162 AD-A264162 AD-A264162 AD-A264163 AD-A264164 AD-A26438 AD-A26438 AD-A26438 AD-A26438 AD-A26438 AD-A264415 AD-A264415 AD-A264575 AD-A2644553 AD-A2644553 AD-A264553 AD-A264553 AD-A264553 AD-A264556	p 3:	34 54 224 336 337 538 337 538 337 538 538 538 538 538 538 538 538	N93-29620 N93-30590 N93-29340 N93-29820 N93-29820 N93-29889 N93-29889 N93-30026 N93-30027 N93-30033 N93-30033 N93-30033 N93-30164 N93-30169 N93-30425 N93-30425 N93-30420 N93-30400 N93-30382 N93-30421 N93-30421 N93-30426	并并并并并并并并并并并并并并并并并并并并并 非并并并并并并并并	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0976TR AFOSR-92-0976TR AFOSR-92-0977TR AFOSR-92-1019TR AFOSR-92-1019TR AFOSR-93-0024TR AFOSR-93-0024TR AFOSR-93-0027TR AFOSR-93-0027TR AFOSR-93-0045TR AFOSR-93-0045TR AFOSR-93-0055TR AFOSR-93-0075TR AFOSR-93-0075TR AFOSR-93-0075TR AFOSR-93-0075TR AFOSR-93-0085TR AFOSR-93-0136TR AFOSR-93-0136TR AFOSR-93-0136TR AFOSR-93-0217TR AFOSR-93-0217TR AFOSR-93-0217TR AFOSR-93-0217TR AFOSR-93-0225TR AFOSR-93-0256TR AFOSR-93-0256TR AFOSR-93-0256TR	P 135 P 121 P 130 P 224 P 235 P 225 P 2219 P 217 P 260 P 261 P 259 P 260 P 260 P 265 P 261 P 265 P 337 P 341 P 335 P 335 P 335	N93-20326 N93-18006 N93-17820 N93-24407 N93-24427 N93-24427 N93-24247 N93-26446 N93-26446 N93-26436 N93-26349 N93-26349 N93-26349 N93-26365 N93-26367 N93-26367 N93-26367 N93-26367 N93-263649 N93-26788 N93-26449 N93-28759 N93-30904 N93-30904	. 并并并并并并并并并并并并并并并并并并并并并并并并并并并并并并并	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0053 AL-TP-1992-0053 AL-TP-1992-0063 AL-TP-1993-0010 AL-TP-1993-0011 AL-TP-1993-0011 AL-TP-1993-0011 AL-TP-1993-0014 AL-TR-1992-0014 AL-TR-1992-0014 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0069 AL-TR-1992-0069 AL-TR-1992-0069 AL-TR-1992-0134 AL-TR-1992-0154 AL-TR-1992-0155 AL-TR-1992-0156 AL-TR-1992-0157 AL-TR-1992-0158 AL-TR-1992-0158 AL-TR-1992-0158 AL-TR-1992-0168 AL-TR-1992-0171 AL-TR-1992-0171 AL-TR-1993-0008 AL-TR-1993-0008 AL-TR-1993-0008 AL-TR-1993-0008 AL-TR-1993-0023 AL-TR-1993-0025	p 51 p 51 p 100 p 335 p 258 p 342 p 342 p 340 p 317 p 57 p 104 p 66 p 353 p 131 p 50 p 353 p 131 p 50 p 353 p 132 p 353 p 132 p 353 p 353	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-30026 N93-11559 N93-12662 N93-12662 N93-12662 N93-12662 N93-12905 N93-13874 N93-29889 N93-17857 N93-29888 N93-26259 N93-26259 N93-30027 N93-29888 N93-26259 N93-30050 N93-30167 N93-30425 N93-30425 N93-294400 N93-30542 N93-29924	并并并并并 并并并并并并并并并并并并并并并并并并
AD-A263240 AD-A263498 AD-A263598 AD-A263598 AD-A263874 AD-A264021 AD-A264026 AD-A264096 AD-A264096 AD-A264099 AD-A264117 AD-A264162 AD-A264162 AD-A264163 AD-A264398 AD-A264398 AD-A264398 AD-A264498 AD-A2644686 AD-A264666	p 3:	34 54 234 633 633 633 633 633 633 633 6	N93-29620 N93-30590 N93-29340 N93-29820 N93-29820 N93-29888 N93-29889 N93-30026 N93-30027 N93-30027 N93-30033 N93-29924 N93-31061 N93-30192 N93-30196 N93-30196 N93-30882 N93-30882 N93-30894 N93-30160 N93-30163 N93-30894 N93-30425 N93-30421 N93-30422 N93-30425 N93-30400 N93-30425 N93-30400 N93-30425 N93-30400 N93-30426 N93-30400 N93-30426 N93-30426 N93-30426 N93-30426 N93-30426	并并并并并并并并并并并并并并并并并并并并并 并并并并并并并并并并	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0946TR AFOSR-92-09950TR AFOSR-92-0997TR AFOSR-92-0997TR AFOSR-92-0997TR AFOSR-92-1019TR AFOSR-92-1019TR AFOSR-92-8841TR AFOSR-93-0024TR AFOSR-93-0027TR AFOSR-93-0031TR AFOSR-93-0043TR AFOSR-93-0054TR AFOSR-93-0056TR AFOSR-93-0027TR AFOSR-93-0027TR AFOSR-93-0027TR AFOSR-93-00256TR AFOSR-93-0256TR AFOSR-93-0256TR AFOSR-93-0280TR AFOSR-93-0280TR AFOSR-93-0280TR AFOSR-93-0280TR	P 135 P 121 P 130 P 224 P 235 P 225 P 221 P 221 P 221 P 2260 P 260 P 261 P 265 P 261 P 2837 P 336 P 336 P 336 P 336 P 336	N93-20326 N93-18006 N93-17820 N93-24479 N93-244207 N93-244207 N93-244207 N93-26446 N93-26349 N93-26349 N93-26349 N93-26349 N93-26367 N93-26367 N93-26367 N93-26399 N93-26399 N93-26399 N93-26399 N93-26391 N93-26391 N93-26391 N93-26391 N93-26391 N93-26391 N93-30163 N93-30422 N93-30163 N93-30422 N93-30164	. 并并并并并并并并并并并并并并并并并并并并并并并并并并并并并并并并	AL-TP-1992-0034 AL-TP-1992-0053 AL-TP-1992-0053 AL-TP-1992-0053 AL-TP-1992-0063 AL-TP-1993-0010 AL-TP-1993-0011 AL-TR-1993-0011 AL-TR-1993-0011 AL-TR-1992-0014 AL-TR-1992-0014 AL-TR-1992-0061 AL-TR-1992-0066 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0110 AL-TR-1992-0110 AL-TR-1992-0110 AL-TR-1992-0110 AL-TR-1992-0110 AL-TR-1992-0110 AL-TR-1992-0136 AL-TR-1992-0136 AL-TR-1992-0136 AL-TR-1992-0171 AL-TR-1993-0010 AL-TR-1993-0010 AL-TR-1993-0023 AL-TR-1993-0023 AL-TR-1993-0023 AL-TR-1993-0025 AL-TR-1993-0025	p 51 p 51 p 100 p 335 p 258 p 342 p 342 p 340 p 37 p 37 p 104 p 66 p 353 p 131 p 50 p 353 p 131 p 50 p 353 p 136 p 353 p 136 p 353 p 136 p 353 p 136 p 353 p 136 p 353 p 137 p 353 p 138 p 353 p 138 p 353 p 353 p 139 p 139 p 353 p	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-30026 N93-11559 N93-12662 N93-12662 N93-12662 N93-13874 N93-19898 N93-17857 N93-29898 N93-26259 N93-30027 N93-29898 N93-26259 N93-30027 N93-25787 N93-18273 N93-2050 N93-30167 N93-29400 N93-30542 N93-29924 N93-18029	并并并并并 并并并并并并并并并并并并并并并并并并
AD-A263240 AD-A263498 AD-A263598 AD-A263598 AD-A263598 AD-A263874 AD-A264021 AD-A264022 AD-A264056 AD-A264069 AD-A264099 AD-A264157 AD-A264162 AD-A264162 AD-A264260 AD-A26438 AD-A26438 AD-A26438 AD-A26438 AD-A264401 AD-A264401 AD-A264457 AD-A264458 AD-A264458 AD-A264457 AD-A264457 AD-A264575 AD-A264661 AD-A264661	9 3 9 3 9 3 9 3 9 3 9 3 9 3 9 3 9 3 9 3	34 54 23 36 36 36 36 36 36 36 36 36 3	N93-29620 N93-30590 N93-29340 N93-29820 N93-29820 N93-29889 N93-29889 N93-30026 N93-30027 N93-30033 N93-29924 N93-31091 N93-31091 N93-30192 N93-30192 N93-30193 N93-30818 N93-30818 N93-30819 N93-30163 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30163 N93-30163 N93-30163 N93-30163 N93-30163 N93-30163 N93-30421 N93-30421 N93-30425 N93-30425 N93-30426 N93-30426 N93-30426 N93-30426 N93-30426 N93-30426 N93-30426 N93-30426 N93-30426 N93-30426 N93-30426 N93-30426 N93-30426	并并并并并并并并并并并并并并并并并并并并并 并并并并并并并并并并并并	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0976TR AFOSR-92-0976TR AFOSR-92-0977TR AFOSR-92-1019TR AFOSR-92-1019TR AFOSR-93-0024TR AFOSR-93-0024TR AFOSR-93-0027TR AFOSR-93-0027TR AFOSR-93-0031TR AFOSR-93-0043TR AFOSR-93-0043TR AFOSR-93-0054TR AFOSR-93-0054TR AFOSR-93-0055TR AFOSR-93-0055TR AFOSR-93-0055TR AFOSR-93-0055TR AFOSR-93-0055TR AFOSR-93-0055TR AFOSR-93-0055TR AFOSR-93-0055TR AFOSR-93-0055TR AFOSR-93-0076TR AFOSR-93-0076TR AFOSR-93-0076TR AFOSR-93-0076TR AFOSR-93-0076TR AFOSR-93-0076TR AFOSR-93-0076TR AFOSR-93-0076TR AFOSR-93-0076TR AFOSR-93-0136TR AFOSR-93-0136TR AFOSR-93-0217TR AFOSR-93-0217TR AFOSR-93-0277TR AFOSR-93-0256TR AFOSR-93-0256TR AFOSR-93-0256TR AFOSR-93-0256TR AFOSR-93-0281TR AFOSR-93-0281TR AFOSR-93-0281TR AFOSR-93-0281TR AFOSR-93-0281TR AFOSR-93-0281TR AFOSR-93-0281TR	P 135 P 1210 P 1300 P 2244 P 235 P 225 P 2219 P 2600 P 2601 P 2600 P 2611 P 2600 P 260	N93-20326 N93-18006 N93-17820 N93-24407 N93-24427 N93-24427 N93-24247 N93-24247 N93-26446 N93-26349 N93-26349 N93-26349 N93-26349 N93-26365 N93-26391 N93-26391 N93-26391 N93-26391 N93-26391 N93-30904 N93-30163 N93-30160 N93-30421 N93-3041 N93-3041 N93-3041 N93-3041 N93-3041 N93-3041 N93-30594	. 并并并并并并并并并并并并并并并并并并并并并并并并并并并并并并并并	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0053 AL-TP-1992-0053 AL-TP-1992-0063 AL-TP-1993-0010 AL-TP-1993-0011 AL-TP-1993-0011 AL-TP-1993-0011 AL-TP-1993-0014 AL-TR-1992-0014 AL-TR-1992-0014 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0069 AL-TR-1992-0069 AL-TR-1992-0069 AL-TR-1992-0134 AL-TR-1992-0154 AL-TR-1992-0155 AL-TR-1992-0156 AL-TR-1992-0157 AL-TR-1992-0158 AL-TR-1992-0158 AL-TR-1992-0158 AL-TR-1992-0168 AL-TR-1992-0171 AL-TR-1992-0171 AL-TR-1993-0008 AL-TR-1993-0008 AL-TR-1993-0008 AL-TR-1993-0008 AL-TR-1993-0023 AL-TR-1993-0025	p 51 p 51 p 100 p 335 p 258 p 342 p 342 p 340 p 37 p 37 p 104 p 66 p 353 p 131 p 50 p 353 p 131 p 50 p 353 p 136 p 353 p 136 p 353 p 136 p 353 p 136 p 353 p 136 p 353 p 137 p 353 p 138 p 353 p 138 p 353 p 353 p 139 p 139 p 353 p	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-30026 N93-11559 N93-12662 N93-12662 N93-12662 N93-13874 N93-19898 N93-17857 N93-29898 N93-26259 N93-30027 N93-29898 N93-26259 N93-30027 N93-25787 N93-18273 N93-2050 N93-30167 N93-29400 N93-30542 N93-29924 N93-18029	并并并并并 并并并并并并并并并并并并并并并并并并
AD-A263240 AD-A263498 AD-A263598 AD-A263598 AD-A263598 AD-A263874 AD-A264021 AD-A264022 AD-A264056 AD-A264069 AD-A264099 AD-A264167 AD-A264167 AD-A264167 AD-A264167 AD-A264167 AD-A264167 AD-A264167 AD-A264167 AD-A264164	p 3:	34 54 234 603 303 303 303 303 303 303 303	N93-29620 N93-30590 N93-29340 N93-29820 N93-29820 N93-29889 N93-29889 N93-30026 N93-30027 N93-30033 N93-30033 N93-3004 N93-31061 N93-30162 N93-30163 N93-30818 N93-30818 N93-30816 N93-30163 N93-30816 N93-30163 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30818 N93-30160 N93-30162 N93-30163 N93-30163 N93-30425 N93-30425 N93-30425 N93-30426 N93-30542 N93-30543 N93-30543 N93-30543 N93-30543	并并并并并并并并并并并并并并并并并并并并并 并并并并并并并并并并并并并并	AFOSR-92-0928TR AFOSR-92-0946TR AFOSR-92-0950TR AFOSR-92-0950TR AFOSR-92-0976TR AFOSR-92-0976TR AFOSR-92-1019TR AFOSR-92-1019TR AFOSR-93-0024TR AFOSR-93-0024TR AFOSR-93-0027TR AFOSR-93-0027TR AFOSR-93-0031TR AFOSR-93-0050TR AFOSR-93-0050TR AFOSR-93-0056TR AFOSR-93-0026TR AFOSR-93-00285TR AFOSR-93-0285TR AFOSR-93-0285TR AFOSR-93-0285TR	P 135 P 121 P 130 P 224 P 235 P 225 P 2219 P 217 P 260 P 260 P 260 P 261 P 260 P 260 P 260 P 260 P 260 P 261 P 260 P 260 P 261 P 260 P 260 P 261 P 260 P 261 P 260 P 260 P 261 P 260 P 260 P 265 P 261 P 265 P 266 P 266 P 266 P 267	N93-20326 N93-18006 N93-17820 N93-24479 N93-244207 N93-244207 N93-244207 N93-26446 N93-26349 N93-26349 N93-26349 N93-26349 N93-26367 N93-26367 N93-26367 N93-26399 N93-26399 N93-28399 N93-28499 N93-28499 N93-28499 N93-28499 N93-28499 N93-36349 N93-30442 N93-30163 N93-30444 N93-30163 N93-30454 N93-30494 N93-30494 N93-30594 N93-30594 N93-30594	. 并并并并并并并并并并并并并并并并并并并并并并并并并并并并并并并并并并并	AL-TP-1992-0034 AL-TP-1992-0048 AL-TP-1992-0053 AL-TP-1992-0053 AL-TP-1992-0053 AL-TP-1993-0010 AL-TP-1993-0011 AL-TR-1993-0011 AL-TR-1993-0011 AL-TR-1992-0014 AL-TR-1992-0033 AL-TR-1992-0056 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0068 AL-TR-1992-0069 AL-TR-1993-0069 AL-TR-1993-0069 AL-TR-1993-0079	p 51 p 51 p 100 p 335 p 258 p 342 p 340 p 342 p 340 p 31 p 57 p 104 p 66 p 353 p 246 p 363 p 246 p 340 p 340 p 341 p 57 p 137 p 137	N93-14027 N93-17684 N93-30400 N93-25815 N93-29481 N93-30575 N93-30026 N93-11559 N93-12662 N93-28464 N93-16033 N93-13874 N93-29889 N93-17857 N93-29888 N93-26259 N93-30027 N93-29888 N93-26259 N93-30027 N93-29888 N93-26259 N93-30027 N93-29924 N93-30425 N93-30425 N93-29924 N93-29924 N93-24028	并并并并并 计并并并并并并并并并并并并并并并并
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ARI-RN-92-50		N93-11779	#	DE92-015353	p 23	N93-11873	#	DOT/FAA/AM-92/23	. р 49	N93-12612	#
ARI-RN-92-62-VOL-2		N93-12545	#	DE92-015760		N93-10834	#	DOT/FAA/AM-92/25		N93-16041	#
ARI-RN-92-63		N93-12509	#	DE92-015847		N93-10461	#	DOT/FAA/AM-92/29		N93-18301	#
ARI-RN-92-68	p 70	N93-14651	#	DE92-015919		N93-10835	#	DOT/FAA/AM-93/3		N93-28306	#
ARI-RN-93-12	p 235	N93-24001	#	DE92-016034		N93-25099	#	DOT/FAA/AM-93/4		N93-26138	#
				DE92-016689		N93-12315	#	DOT/FAA/AM-93/5	p 267	N93-26089	#
ARI-RR-1622		N93-12508	#	DE92-017392		N93-12768	#	DOT/FAA/AM-93/6	p 310	N93-27121	#
ARI-RR-1636	p 354	N93-30590		DE92-017448		N93-12566	#	DOT/FAA/AM-93/7			#
				DE92-017673		N93-13269	#	DOT/FAA/AM-93/8	p 283	N93-27158	#
ARI-TR-954	p 63	N93-12609	#	DE92-017863		N93-15211	#	DOT/FAA/AM-93/9	p 288	N93-28622	#
ARI-TR-974	p 366		#	DE92-018066		N93-10974	#				
ARI-TR-975	p 363	N93-32011	#	DE92-018760		N93-11445	#	DOT/FAA/RD-91/14-VOL-1	p 99	N93-16189	#
				DE92-019124		N93-12712	#	DOT/FAA/RD-92/16-1-VOL-1	p 104	N93-15968	#
ARIEM-TN-93-2	p 218	N93-24021	#	DE92-019411		N93-11630	#	DOT/FAA/RD-93/9	p 288	N93-27103	#
				DE92-019916		N93-13083	#				
ARL-TR-25	p 321	N93-28941	#	DE92-019917		N93-13034	#	DOT/HS-807-866	p 195	N93-21795	#
	-			DE92-040152		N93-13520	#				
ARO-RN-92-61	p 30	N93-10261	#	DE92-040153		N93-13503	#	DOT/VNTSC-FAA-92-9-VOL-1	p 104	N93-15968	#
				DE92-040244		N93-13522	#				
ARO-24629.68-LS-UIR	p 330	N93-29915	#	DE92-040955		N93-16166	#	DREO-92-8	p 218	N93-23984	#
ARO-26099.9-LS	p 245	N93-25764	#	DE92-041077	p 96	N93-16441	#				
ARO-26576.3-LS		N93-13863	#	DE92-041128	p 82	N93-17189	#	E-19298U			#
ARO-26767.6-LS	p 255	N93-25944	#	DE92-041134		N93-16552	#	E-7815	p 246	N93-27085	* #
ARO-28066.1-MA		N93-15363	#	DE92-041207		N93-17359	#				
ARO-29170.2-LS	p 219	N93-24238	#	DE92-634160		N93-10222	#	EEI-89-236	p 209	N93-23081	* #
				DE92-642335	p 372	N93-32406	#				
ASC-TR-92-5017	p 236	N93-24168	#	DE93-000758		N93-17230	#	EGG-M-92402	. p 321	N93-28942	#
				DE93-001923		N93-28942	#				
ASD-TR-5004-VOL-3		N93-10713	#	DE93-002098	p 95	N93-15900	#	EPA/600/A-92/166			#
ASD-TR-92-5010	p 195	N93-21753	#	DE93-002281		N93-24502	#	EPA/600/A-92/226		N93-21215	#
				DE93-002344		N93-25104	#	EPA/600/A-93/017		N93-25877	#
ASI690-344-91	p 35	N93-12509	#	DE93-002940		N93-19751	#	EPA/600/8-91/011B	p 12	N93-10438	#
ASI690-348-91	p 63	N93-12609	#	DE93-003795		N93-22774	#	EPA/832/R-92/004	p 64	N93-12983	#
ASI690-349-91	p 35	N93-12508	#	DE93-004515		N93-24009	#				
ASI690-354-92-I	p 30	N93-10261	#	DE93-005675		N93-19838	#	ESA-TT-1269	p 277	N93-29274	#
ASI690-354-92-VOL-2	p 63	N93-12545	#	DE93-006235		N93-28890	#				
				DE93-006411		N93-24028	#	ESC-TR-92-121	p 58	N93-14580	#
BD-92-02	p 32	N93-11812	#	DE93-006731		N93-25415	#	ESC-TR-92-139	p 333	N93-29421	#
				DE93-007328		N93-25186	#				
BGSM-PP-92-001	p 330	N93-30594	#	DE93-007428		N93-25318	#	ETN-92 92419	p 26	N93-11212	
				DE93-007677		N93-22913	#	ETN-93-92756	p 158	N93-20959	#
BNL-47574	p 5	N93-10461	#	DE93-007678		N93-24455	#	ETN-93-92808	p 157	N93-20848	#
BNL-47624	p 5	N93-11630	#	DE93-007815			#	ETN-93-92932	p 82	N93-17214	#
BNL-48062	p 115	N93-19751	#	DE93-010682			#	ETN-93-92958	p 96	N93-16962	#
	•			DE93-010828		N93-28835	#	ETN-93-92990	p 100	N93-17026	#
BR113301	p 25	N93-10979	#	DE93-010854			#	ETN-93-93434	p 181	N93-21402	#
	•			DE93-012109			#	ETN-93-93435	p 196	N93-22389	#
CAP-601	p 363	N93-31729		DE93-012269			#	ETN-93-93480	p 209	N93-23369	#
	·			DE93-603677		N93-31161	#	ETN-93-93526	p 225	N93-24104	#
CBIAC-SS-335	p 317	N93-28757	#	DE93-609131			#	ETN-93-93572	p 219	N93-24092	#
CBIAC-SS-373	p 284	N93-28758	#		,			ETN-93-93573	p 219	N93-24093	#
	•			DLR-FB-91-14	p 277	N93-29274	#	ETN-93-93693	p 217	N93-23414	#
CMU-CS-93-146	p 364	N93-32064	#	DLR-FB-92-12			#	ETN-93-93715	p 277	N93-29274	#
	•			DLR-FB-92-13			#	ETN-93-93764	p 275	N93-28199	#
CONF-9004365-SUMM	p 82	N93-17359	#	DLR-FB-92-14			#	ETN-93-93765	p 275	N93-27989	#
CONF-9105279	p 372	N93-32406	#	DLR-FB-92-29			#	ETN-93-93766	p 275	N93-28200	#
CONF-9110388-1	p 5	N93-10628	#					ETN-93-93767	p 275	N93-28212	#
CONF-9110426	p 338	N93-31225	#	DNA-TR-91-178	p 59	N93-15216	#	ETN-93-93799	p 284	N93-28469	#
CONF-920113-7	p 285	N93-28835	#	DNA-TR-92-54-V2-VOL-2	p 351	N93-29484	#	ETN-93-93877	p 320	N93-28897	#
CONF-9202107-1		N93-10626	#					ETN-93-93931		N93-31729	
CONF-9203160-1	. р5	N93-10461	#	DODA-AR-006-899	p 266	N93-25904	#	ETN-93-93960		N93-31229	#
CONF-9204144-2	. р5	N93-10834	#					ETN-93-94028	р 359	N93-32423	#
CONF-920508-6	. p 276		#	DOE/BP-1792	p 43	N93-15211	#				
CONF-9205118-1	. р5	N93-10974	#					ETS-RR-92-38-0N4	p 52	N93-14109	#
CONF-9206237-1		N93-12712	#	DOE/CE-34023/T1	p 276	N93-28848	#				
CONF-9206254-1		N93-11630	#					FASTC-ID(RS)T-0064-92	p 52	N93-14084	#
CONF-920630-2		N93-16552	#	DOE/ER-13188/7		N93-12768	#	50 t t 10005 t 5		*100 00:0-	
CONF-9207106-1		N93-12315	#	DOE/ER-20021/2		N93-10835	#	FOA-A-40065-4.5	р 359	N93-32423	#
CONF-9208155-2		N93-17189	#	DOE/ER-20033/1		N93-29181	#	50.0.0000.0		1100 00:00	
CONF-9208155-3		N93-19751	#	DOE/ER-60448/T6		N93-28651	#	FOA-B-40419-4.4			#
CONF-920905-32		N93-17230	#	DOE/ER-60503/352		N93-13083	#	FOA-B-40420-4.4			#
CONF-9210149-1		N93-12566	#	DOE/ER-60503/353		N93-13034	#	FOA-B-40421-4.4			#
CONF-9210177-2		N93-24502	#	DOE/ER-60561/6		N93-11873	#	FOA-8-40422-4.4	p 275	N93-28212	#
CONF-9210231-3		N93-22774	#	DOE/ER-60561/7		N93-15900	#	CD 4 (ODD 60/47	- 0	NIO0 00075	
CONF-921197-1		N93-13522	#	DOE/ER-60631/10		N93-12266	#	FRA/ORD-92/17	p 351	N93-296/5	
CONF-930159-16		N93-26587	#	DOE/ER-60707/T3		N93-24009	#	HEI/RR-92/52	- 007	NIO2 20002	#
CONF-930159-3			#	DOE/ER-61091/2		N93-16441	#	HEI/HH-92/02	р 337	1493-20890	#
CONF-930489-1		N93-25186	#	DOE/ER-61228/3	p 22	N93-11445	#	HELTM 5 02	5 E0	NO2-14416	#
CONF-9305153-2			#	BOT 4.10 05		NOC	,,	HEL-TM-5-92 HEL-TM-7-92		N93-14416	#
CONF-930519-1			#	DOE/MC-27225/T5		N93-13269	#	DEC-181-7-92	P 104	N93-16048	#
CONF-930561-1		N93-25415	#	DOE/MC-27225/3091	р6	N93-12482	#	HEL-TN-3-92	0.21	NQ2-11742	#
CONF-930571-1			#	DOT	- 6-	1100 (0:00		□EL-11N-3-32	Pai	N93-11743	17
CONF-930661-1	p 321	N93-28942	#	DOE/RA-50219/T22		N93-16166	#	HS-TR-8025-3C(R2)	0.214	N02-27964	#
CRDEC TO 400	2 52	NO2 10750		DOE/RA-50219/T27		N93-22913	#	110-111-0020-3U(DZ)	. µ314	1493-21001	Ħ.
CRDEC-TR-400	. р 50	N93-12756	#	DOE/RA-50219/T28		N93-24455	#	IAEA-TECDOC-645	n 12	N93-10222	#
CTN 02 60CCC		NIOG GCC 4C	u u	DOE/RA-50219/21-PT-1		N93-13520	#	IACA-1 EUDUU-043	. p 12	1493-10222	Ħ
CTN-93-60696	. р 209	N93-23343	#	DOE/RA-50219/21-PT-2	p 41	N93-13503	#	IC-92/170	n 221	NO2 21161	
DCIEM 00 00		NIDO 00040	и.			NO0 C:55-		10-92/1/0	. p 331	N93-31161	#
DCIEM-92-20			#	DOT-HS-807-865	p 194	N93-21537	#	IDA-P-2433	0.35	N93-12491	#
DCIEM-92-31			#				.,	IDA-P-2433IDA-P-2609			#
DCIEM-92-60	p 285	N93-28939	#	DOT/FAA/AM-92/12		N93-10321	#	IDA-F-2009	. p 25	N93-10719	Ħ
DE00 001070		NOO 10100		DOT/FAA/AM-92/14		N93-25214	#	IDA/HQ-90-36732	n 25	N93-12491	#
DE92-001279		N93-12482	#	DOT/FAA/AM-92/15		N93-24088	#	IDA/HQ-91-39384		N93-12491 N93-10719	#
DE92-013510		N93-10626	#	DOT/FAA/AM-92/16		N93-25213	#	IUA/11G-31-33304	. p 25	1493-10719	π
DE92-013673		N93-12266	#	DOT/FAA/AM-92/17		N93-25203	#	WTD1 F00044	- 05-	NIDO 00075	
DE92-015244	. p 5	N93-10628	#	DOT/FAA/AM-92/22	. p 31	N93-11279	#	IITRI-E06641	. p 351	1433-530/2	

INIS-MF-13374 REPORT NUMBER INDEX

INIS-MF-13374 p 33							
INIS-Mr-133/4 D.33	3 N93-31225 #	NAMRL-MONOGRAPH-43	n 27	N93-12432 #	NAS 1.26:192031	p 140	N93-18153 * #
	"	NAMRL-MONOGRAPH-45			NAS 1.26:192042		
INT-PATENT-CLASS-A61F-2/54 . p 70	N93-14870 *		p		NAS 1.26:192045		
1017-FATERT-CEASS-A017-2734 , p 70	1493-14070	NAMRL-SR92-1	D 140	N93-18293 #	NAS 1.26:192062		
11/7 DATENT OF ACC BOOK 5		NAMRL-SR92-3					
INT-PATENT-CLASS-B62D-51/04 p 53	N93-14708 *				NAS 1.26:192078		
INT-PATENT-CLASS-B64G-1/60 . p 70	N93-14713 *	NAMRL-TM-92-2	p 120	N93-17895 #	NAS 1.26:192079		
			•		NAS 1.26:192080	p 108	N93-17710·* #
INT-PATENT-CLASS-C12N-5/02 . p 4	N93-10109 *	NAMRL-1365	p 140	N93-18200 #	NAS 1.26:192121	p 132	N93-18359 * #
INT-PATENT-CLASS-C12N-5/02 , p 5	N93-10110 *	NAMRL-1368	p 120	N93-17896 #	NAS 1.26:192157		
		NAMRL-1369	p 132	N93-18294 #	NAS 1.26:192188		
INT-PATENT-CLASS-G01N-33/569 p 245		NAMRL-1370			NAS 1.26:192219		
INT-PATENT-CLASS-G06F-15/18 p 340	N93-29610 1	NAMRL-1372			NAS 1.26:192295	p 149	N93-20314 * #
		NAMRL-1373			NAS 1.26:192343	p 234	N93-22663 * #
IPEN-PUB-341 p 372	N93-32406 #	NAMRL-1374			NAS 1.26:192361	p 181	N93-20908 * #
		NAMRL-1375			NAS 1.26:192382	p 172	N93-20736 * #
ISBN 0-387-54759-2 p 357		NAMRL-1376			NAS 1.26:192470		
ISBN 0-471-57567-4 p 357		NAMRL-1377 NAMRL-1379			NAS 1.26:192481		
ISBN 0-521-34123-X p 365		NAMAL-13/9	p 225	N93-24319 #	NAS 1.26:192520		N93-22655 # N93-32354 * #
ISBN 0-74840-008-7 p 182		NAS 1.15:102849	n 25	N93-12319 * #	NAS 1.26:192570NAS 1.26:192571		
ISBN 0-8194-0552-3 p 137 ISBN 0-8194-0555-8 p 181		NAS 1.15:103881			NAS 1.26:192571	p 372	N93-32356 * #
ISBN 0-8194-0333-6 p 181		NAS 1.15:103898			NAS 1.26:192575	0 225	NG3-32330 #
ISBN 0-8194-0823-9 p 408		NAS 1.15:103942			NAS 1.26:192703		
ISBN 0-8194-0860-3 p 227		NAS 1.15:103949		N93-12014 * #	NAS 1.26:192766		
ISBN 0-8194-1030-6 p 190		NAS 1.15:103950		N93-12018 * #	NAS 1.26:192815		
ISBN 0-8236-2415-3 p 87	A93-17897	NAS 1.15:104737		N93-32328 * #	NAS 1.26:192830		
ISBN 0-8493-4703-3 p 402		NAS 1.15:104753		N93-29651 * #	NAS 1.26:192974		
ISBN 0-903409-85-2 p 29	A93-13408	NAS 1.15:104754	p 31	N93-11649 * #	NAS 1.26:192982	p 267.	N93-26088 * #
ISBN 0-937194-25-5 p 39	A93-17426	NAS 1.15:104758		N93-20303 * #	NAS 1.26:193014	p 313	N93-27847 * #
ISBN 5-12-001601-4 p 243		NAS 1.15:104767		N93-23129 * #	NAS 1.26:193023	p 282	N93-27113 * #
·		NAS 1.15:104769		N93-29044 * #	NAS 1.26:193040		
ISBN-0-309-04437-5 p 173		NAS 1.15:107551		N93-10085 * #	NAS 1.26:193041		
ISBN-0-8194-0749-6 p 182		NAS 1.15:107557			NAS 1.26:193049	p 267	N93-26153 * #
ISBN-0-86-039518-9 p 363		NAS 1.15:108005 NAS 1.15:108023		N93-10890 * # N93-21370 * #	NAS 1.26:193073	p 2/6	N93-28415 #
ISBN-3-258-04585-2 p 97		NAS 1.15:108025		N93-16799 * #	NAS 1.26:193137		
ISBN-92-835-0600-6 p 133 ISBN-92-835-0664-2 p 14	N93-18868 # N93-11283 #	NAS 1.15:108024		N93-15823 * #	NAS 1.26:193233		
ISBN-92-835-0689-8 p 144		NAS 1.15:108036		N93-18375 * #	NAS 1.26:193245	p 277	N93-29216 * #
ISBN-92-835-0690-1 p 95		NAS 1.15:108038	p 115	N93-19891 * #	NAS 1.26:193278		
ISBN-92-835-0703-7 p 367	N93-32240 #	NAS 1.15:108039			NAS 1.26:193301	p 365	N93-31844 * #
ISBN-92-835-0706-1 p 317		NAS 1.15:108040			NAS 1.26:193304		N93-32364 * #
ISBN-951-38-3946-X p 209	N93-23369 #	NAS 1.15:108041		N93-19882 * #	NAS 1.26:3922(39)		
101/D TR 200	NI00 10404	NAS 1.15:108042 NAS 1.15:108093		N93-21359 # N93-13571 * #	NAS 1.26:4466NAS 1.26:4467		
ISVR-TR-209 p 65 ISVR-TR-218 p 361	N93-13464 N93-32237	NAS 1.15:108375		N93-12174 * #	NAS 1.26:4475		
13VH-111-210 p 301	1430-36237	NAS 1.15:108409			NAS 1.26:4476		N93-15583 * #
IZF-1992-B-1 p 58	N93-14602 #	NAS 1.15:108582		N93-20998 * #	NAS 1.26:4497		
IZF-1992-B-7 p 60	N93-15400 #	NAS 1.15:4383		N93-13023 * #	NAS 1.55:10048		N93-29502 * #
IZF-1992-B-8 p 57	N93-14267 #	NAS 1.15:4408	p 124	N93-18381 * #	NAS 1.60:3266	n 258	N93-25736 * #
·		NAS 1.19:279		N93-13692 * #	NAS 1.60:3286	p 96	N93-16619 * #
JPRS-ULS-92-020 p 244	N93-25406 #	NAS 1.21:512	p 112	N93-18545 * #	NAS 1.60:3286 NAS 1.60:3297	p 96 p 149	N93-20319 * #
JPRS-ULS-92-020 p 244 JPRS-ULS-92-022 p 253	N93-25406 # N93-25407 #	NAS 1.21:512 NAS 1.21:7011(360)	p 112 p 12	N93-18545 * # N93-10076 *	NAS 1.60:3286 NAS 1.60:3297 NAS 1.60:3298	р 96 р 149 р 128	N93-20319 * # N93-20318 * #
JPRS-ULS-92-020 p 244 JPRS-ULS-92-022 p 253 JPRS-ULS-92-024 p 40	N93-25406 # N93-25407 # N93-13033 #	NAS 1.21:512 NAS 1.21:7011(360) NAS 1.21:7011(364)	p 112 p 12 p 12	N93-18545 * # N93-10076 * N93-10077 *	NAS 1.60:3286	p 96 p 149 p 128 p 218	N93-20319 * # N93-20318 * # N93-23734 * #
JPRS-ULS-92-020 p 244 JPRS-ULS-92-022 p 240 JPRS-ULS-92-024 p 40 JPRS-ULS-92-025 p 244	N93-25406 # N93-25407 # N93-13033 # N93-25405 #	NAS 1.21:512	p 112 p 12 p 12 p 12	N93-18545 * # N93-10076 * N93-10077 * N93-10075 *	NAS 1.60:3286 NAS 1.60:3297 NAS 1.60:3298 NAS 1.60:3299 NAS 1.60:3305	p 96 p 149 p 128 p 218 p 217	N93-20319 * # N93-20318 * # N93-23734 * # N93-23410 * #
JPRS-ULS-92-020 p 244 JPRS-ULS-92-022 p 253 JPRS-ULS-92-024 p 40 JPRS-ULS-92-025 p 244 JPRS-ULS-92-027 p 276	N93-25406 # N93-25407 # N93-13033 # N93-25405 # N93-28684 #	NAS 1.21:512 NAS 1.21:7011(360) NAS 1.21:7011(364)	p 112 p 12 p 12 p 12 p 12	N93-18545 * # N93-10076 * N93-10077 *	NAS 1.60:3286 NAS 1.60:3297 NAS 1.60:3298 NAS 1.60:3299 NAS 1.60:3305 NAS 1.61:1304	p 96 p 149 p 128 p 218 p 217 p 321	N93-20319 * # N93-20318 * # N93-23734 * # N93-23410 * # N93-29324 * #
JPRS-ULS-92-020 p 244 JPRS-ULS-92-022 p 253 JPRS-ULS-92-024 p 40 JPRS-ULS-92-025 p 244 JPRS-ULS-92-027 p 276 JPRS-ULS-93-005 p 276	N93-25406 # N93-25407 # N93-13033 # N93-25405 # N93-28684 #	NAS 1.21:512 NAS 1.21:7011(360) NAS 1.21:7011(364) NAS 1.21:7011(365) NAS 1.21:7011(367) NAS 1.21:7011(367) NAS 1.21:7011(368)	p 112 p 12 p 12 p 12 p 12 p 12 p 12 p 53	N93-18545 * # N93-10076 * N93-10077 * N93-10079 * N93-10080 * N93-14603 *	NAS 1.60:3286 NAS 1.60:3297 NAS 1.60:3298 NAS 1.60:3299 NAS 1.60:3305 NAS 1.61:1304 NAS 1.71:LAR-15022-1 NAS 1.71:MFS-26124-1-NPO	p 96 p 149 p 128 p 218 p 217 p 321 p 288 p 276	N93-20319 * # N93-20318 * # N93-23734 * # N93-23410 * # N93-29324 * # N93-28128 * # N93-29174 * #
JPRS-ULS-92-020 p 244 JPRS-ULS-92-022 p 253 JPRS-ULS-92-024 p 40 JPRS-ULS-92-025 p 244 JPRS-ULS-92-027 p 276 JPRS-ULS-93-005 p 276	N93-25406 # N93-25407 # N93-13033 # N93-25405 # N93-28684 # N93-28683 #	NAS 1.21:512 NAS 1.21:7011(360) NAS 1.21:7011(364) NAS 1.21:7011(365) NAS 1.21:7011(366) NAS 1.21:7011(367) NAS 1.21:7011(368) NAS 1.21:7011(369)	p 112 p 12 p 12 p 12 p 12 p 12 p 53 p 53	N93-18545 * # N93-10076 * N93-10077 * N93-10075 * N93-10079 * N93-10080 * N93-14603 * N93-14731 *	NAS 1.60:3286 NAS 1.60:3297 NAS 1.60:3298 NAS 1.60:3299 NAS 1.60:3305 NAS 1.51:1304 NAS 1.71:LAR-15022-1 NAS 1.71:MFS-26124-1-NPO NAS 1.71:MFS-28402-1	p 96 p 149 p 128 p 218 p 217 p 321 p 288 p 276 p 276	N93-20319 * # N93-20318 * # N93-23734 * # N93-23410 * # N93-29324 * # N93-28128 * # N93-29174 * # N93-28952 * #
JPRS-ULS-92-020 p 244 JPRS-ULS-92-022 p 253 JPRS-ULS-92-024 p 40 JPRS-ULS-92-025 p 244 JPRS-ULS-92-027 p 276 JPRS-ULS-93-005 p 276	N93-25406 # N93-25407 # N93-13033 # N93-25405 # N93-28684 # N93-28683 #	NAS 1.21:512 NAS 1.21:7011(360) NAS 1.21:7011(364) NAS 1.21:7011(365) NAS 1.21:7011(365) NAS 1.21:7011(366) NAS 1.21:7011(367) NAS 1.21:7011(368) NAS 1.21:7011(369) NAS 1.21:7011(370)	p 112 p 12 p 12 p 12 p 12 p 12 p 53 p 53 p 121	N93-18545 * # N93-10076 * N93-10077 * N93-10075 * N93-10079 * N93-10080 * N93-14603 * N93-14731 * N93-18108 *	NAS 1.60:3286 NAS 1.60:3297 NAS 1.60:3298 NAS 1.60:3299 NAS 1.60:3305 NAS 1.61:1304 NAS 1.71:MFS-26124-1-NPO NAS 1.71:MFS-28402-1 NAS 1.71:MFS-28402-1 NAS 1.71:MFS-28810-1	p 96 p 149 p 128 p 218 p 217 p 321 p 288 p 276 p 276 p 106	N93-20319 * # N93-20318 * # N93-23734 * # N93-23410 * # N93-29124 * # N93-29174 * # N93-2952 * # N93-17045 * #
JPRS-ULS-92-020 p 244 JPRS-ULS-92-022 p 253 JPRS-ULS-92-024 p 40 JPRS-ULS-92-025 p 244 JPRS-ULS-92-027 p 276 JPRS-ULS-93-005 p 276 L-17090 p 50 L-17138 p 124	N93-25406 # N93-25407 # N93-13033 # N93-25405 # N93-28684 # N93-28683 # N93-13023 * # N93-18381 * #	NAS 1.21:512 NAS 1.21:7011(360) NAS 1.21:7011(364) NAS 1.21:7011(365) NAS 1.21:7011(365) NAS 1.21:7011(367) NAS 1.21:7011(368) NAS 1.21:7011(369) NAS 1.21:7011(370) NAS 1.21:7011(370) NAS 1.21:7011(371)	p 112 p 12 p 12 p 12 p 12 p 12 p 53 p 53 p 121 p 172	N93-18545 * # N93-10076 * N93-10077 * N93-10075 * N93-10080 * N93-14008 * N93-14731 * N93-18108 * N93-20889 *	NAS 1.60:3286 NAS 1.60:3297 NAS 1.60:3298 NAS 1.60:3299 NAS 1.60:3305 NAS 1.61:1304 NAS 1.71:LAR-15022-1 NAS 1.71:MFS-26124-1-NPO NAS 1.71:MFS-28402-1 NAS 1.71:MFS-28610-1 NAS 1.71:MFS-28632-1	p 96 p 149 p 128 p 218 p 217 p 321 p 288 p 276 p 276 p 106 p 106	N93-20319 * # N93-20318 * # N93-23734 * # N93-23410 * # N93-28128 * # N93-28174 * # N93-28952 * # N93-17045 * # N93-17042 * #
JPRS-ULS-92-020 p 244 JPRS-ULS-92-022 p 253 JPRS-ULS-92-024 p 40 JPRS-ULS-92-025 p 244 JPRS-ULS-92-027 p 276 JPRS-ULS-93-005 p 276 L-17090 p 50 L-17138 p 124 LA-UR-92-1722 p 5	N93-25406 # N93-25407 # N93-13033 # N93-25405 # N93-28684 # N93-28683 # N93-13023 *# N93-18381 *# N93-10628 #	NAS 1.21:512 NAS 1.21:7011(360) NAS 1.21:7011(364) NAS 1.21:7011(365) NAS 1.21:7011(365) NAS 1.21:7011(367) NAS 1.21:7011(368) NAS 1.21:7011(369) NAS 1.21:7011(370) NAS 1.21:7011(371) NAS 1.21:7011(371)	p 112 p 12 p 12 p 12 p 12 p 12 p 53 p 53 p 121 p 172 p 172	N93-18545 * # N93-10076 * N93-10077 * N93-10075 * N93-10079 * N93-10080 * N93-14603 * N93-14731 * N93-18108 * N93-20889 * N93-21044 *	NAS 1.60:3286 NAS 1.60:3297 NAS 1.60:3298 NAS 1.60:3299 NAS 1.60:3305 NAS 1.61:1304 NAS 1.71:LAR-15022-1 NAS 1.71:MFS-26124-1-NPO NAS 1.71:MFS-26802-1 NAS 1.71:MFS-2860-1 NAS 1.71:MFS-28632-1 NAS 1.71:MFS-28632-1 NAS 1.71:MFS-28632-1 NAS 1.71:MFS-28630-1	P 96 P 149 P 128 P 218 P 217 P 321 P 288 P 276 P 276 P 106 P 106 P 354	N93-20319 * # N93-20318 * # N93-20318 * # N93-23410 * # N93-29324 * # N93-28128 * # N93-28174 * # N93-28952 * # N93-17045 * # N93-17045 * # N93-30566 * #
JPRS-ULS-92-020 p 244 JPRS-ULS-92-022 p 253 JPRS-ULS-92-024 p 40 JPRS-ULS-92-025 p 244 JPRS-ULS-92-027 p 276 JPRS-ULS-93-005 p 276 L-17090 p 50 L-17138 p 124 LA-UR-92-1722 p 5 LA-UR-92-2039 p 49	N93-25406 # N93-25407 # N93-13033 # N93-25405 # N93-25684 # N93-28683 # N93-13023 * N93-18381 * N93-10528 # N93-10528 #	NAS 1.21:512 NAS 1.21:7011(360) NAS 1.21:7011(364) NAS 1.21:7011(365) NAS 1.21:7011(365) NAS 1.21:7011(366) NAS 1.21:7011(368) NAS 1.21:7011(369) NAS 1.21:7011(370) NAS 1.21:7011(371) NAS 1.21:7011(371) NAS 1.21:7011(372)	p 112 p 12 p 12 p 12 p 12 p 12 p 53 p 53 p 121 p 172 p 172 p 256	N93-18545 * # N93-10076 * N93-10077 * N93-10075 * N93-10079 * N93-14030 * N93-14603 * N93-14731 * N93-18108 * N93-20889 * N93-21044 * N93-26945 *	NAS 1.60:3286 NAS 1.60:3297 NAS 1.60:3298 NAS 1.60:3299 NAS 1.60:3305 NAS 1.61:1304 NAS 1.71:LAR-15022-1 NAS 1.71:MFS-26124-1-NPO NAS 1.71:MFS-28612-1 NAS 1.71:MFS-28632-1 NAS 1.71:MFS-28632-1 NAS 1.71:MFS-28707-1 NAS 1.71:MFS-28707-1	p 96 p 149 p 128 p 218 p 217 p 321 p 288 p 276 p 276 p 106 p 106 p 354 p 96	N93-20319 * # N93-20318 * # N93-23734 * # N93-23410 * # N93-29324 * # N93-29174 * # N93-28952 * # N93-17045 * # N93-17045 * # N93-17045 * # N93-17045 * #
JPRS-ULS-92-020 p 244 JPRS-ULS-92-022 p 253 JPRS-ULS-92-024 p 40 JPRS-ULS-92-025 p 244 JPRS-ULS-92-027 p 276 JPRS-ULS-93-005 p 276 L-17090 p 50 L-17138 p 124 LA-UR-92-1722 p 5 LA-UR-92-2039 p 49 LA-UR-92-2688 p 51	N93-25406 # N93-25407 # N93-13033 # N93-25405 # N93-28683 # N93-28683 * N93-13023 * N93-18381 * N93-10628 # N93-10528 # N93-10528 # N93-13522 #	NAS 1.21:512 NAS 1.21:7011(360) NAS 1.21:7011(364) NAS 1.21:7011(365) NAS 1.21:7011(367) NAS 1.21:7011(367) NAS 1.21:7011(368) NAS 1.21:7011(369) NAS 1.21:7011(370) NAS 1.21:7011(371) NAS 1.21:7011(372) NAS 1.21:7011(373) NAS 1.21:7011(377)	p 112 p 12 p 12 p 12 p 12 p 12 p 53 p 53 p 121 p 172 p 172 p 256 p 361	N93-18545 * # N93-10076 * N93-10077 * N93-10077 * N93-10079 * N93-10080 * N93-14603 * N93-14731 * N93-18108 * N93-20889 * N93-21044 * N93-26945 * N93-31924 *	NAS 1.60:3286 NAS 1.60:3297 NAS 1.60:3298 NAS 1.60:3299 NAS 1.60:3305 NAS 1.61:1304 NAS 1.71:MFS-26124-1-NPO NAS 1.71:MFS-28402-1 NAS 1.71:MFS-28610-1 NAS 1.71:MFS-28632-1 NAS 1.71:MFS-28707-1 NAS 1.71:MFS-28707-1 NAS 1.71:MFS-28772-1	P 96 P 149 P 128 P 218 P 217 P 321 P 288 P 276 P 106 P 106 P 354 P 96 P 353	N93-20319 * # N93-20318 * # N93-2334 * # N93-23410 * # N93-29324 * # N93-29124 * # N93-28952 * # N93-17045 * # N93-17042 * # N93-30566 * # N93-29845 * #
JPRS-ULS-92-020 p 244 JPRS-ULS-92-022 p 253 JPRS-ULS-92-024 p 40 JPRS-ULS-92-025 p 244 JPRS-ULS-92-027 p 276 JPRS-ULS-93-005 p 276 L-17090 p 50 L-17138 p 124 LA-UR-92-1722 p 5 LA-UR-92-2698 p 51 LA-UR-92-2698 p 51 LA-UR-92-3645 p 217	N93-25406 # N93-25407 # N93-13033 # N93-25405 # N93-28684 # N93-28683 # N93-13023 * N93-18381 * N93-10528 # N93-12566 # N93-125274 #	NAS 1.21:512 NAS 1.21:7011(360) NAS 1.21:7011(364) NAS 1.21:7011(365) NAS 1.21:7011(365) NAS 1.21:7011(366) NAS 1.21:7011(368) NAS 1.21:7011(369) NAS 1.21:7011(370) NAS 1.21:7011(371) NAS 1.21:7011(371) NAS 1.21:7011(372)	p 112 p 12 p 12 p 12 p 12 p 12 p 53 p 53 p 121 p 172 p 172 p 256 p 361 p 149	N93-18545 * # N93-10076 * N93-10077 * N93-10075 * N93-10079 * N93-14030 * N93-14603 * N93-14731 * N93-18108 * N93-20889 * N93-21044 * N93-26945 *	NAS 1.60:3286 NAS 1.60:3297 NAS 1.60:3298 NAS 1.60:3299 NAS 1.60:3305 NAS 1.61:1304 NAS 1.71:LAR-15022-1 NAS 1.71:MFS-26124-1-NPO NAS 1.71:MFS-28612-1 NAS 1.71:MFS-28632-1 NAS 1.71:MFS-28632-1 NAS 1.71:MFS-28707-1 NAS 1.71:MFS-28707-1	P 96 P 149 P 128 P 218 P 217 P 321 P 288 P 276 P 106 P 106 P 354 P 96 P 353 P 106	N93-20319 * # N93-20318 * # N93-2334 * # N93-23410 * # N93-29324 * # N93-29124 * # N93-28952 * # N93-17045 * # N93-17042 * # N93-30566 * # N93-29845 * #
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JPRS-ULS-92-020 p 244 JPRS-ULS-92-022 p 253 JPRS-ULS-92-024 p 40 JPRS-ULS-92-025 p 244 JPRS-ULS-92-027 p 276 JPRS-ULS-93-005 p 276 L-17090 p 50 L-17138 p 124 LA-UR-92-1722 p 5 LA-UR-92-2039 p 49 LA-UR-92-2698 p 51 LA-UR-92-3645 p 217 LA-UR-93-402 p 253 LAIR-471 p 120 LBL-PUB-701 p 82	N93-25406 # N93-25407 # N93-13033 # N93-25405 # N93-25668 # N93-18381 * N93-1628 # N93-1628 # N93-15566 # N93-13522 # N93-25186 # N93-17900 # N93-17359 #	NAS 1.21:512 NAS 1.21:7011(360) NAS 1.21:7011(364) NAS 1.21:7011(365) NAS 1.21:7011(365) NAS 1.21:7011(367) NAS 1.21:7011(368) NAS 1.21:7011(368) NAS 1.21:7011(369) NAS 1.21:7011(370) NAS 1.21:7011(370) NAS 1.21:7011(371) NAS 1.21:7011(373) NAS 1.21:7011(373) NAS 1.21:7011(373) NAS 1.21:7011(373) NAS 1.21:7011(373) NAS 1.26:17602 NAS 1.26:17609 NAS 1.26:184390 NAS 1.26:184490 NAS 1.26:184429 NAS 1.26:184429 NAS 1.26:184429 NAS 1.26:184438	P 112 P 12 P 12 P 12 P 12 P 53 P 53 P 121 P 172 P 172 P 256 P 364 P 64 P 64 P 64 P 64 P 64 P 64 P 64 P	N93-18545 * # N93-10076 * N93-10077 * N93-10075 * N93-10079 * N93-10080 * N93-14731 * N93-14731 * N93-18108 * N93-21044 * N93-26945 * N93-21044 * N93-26945 * N93-24738 * # N93-12900 * # N93-12901 * # N93-12901 * # N93-12949 * #	NAS 1.60:3286 NAS 1.60:3297 NAS 1.60:3298 NAS 1.60:3299 NAS 1.60:3305 NAS 1.51:1304 NAS 1.71:LAR-15022-1 NAS 1.71:LAR-15022-1 NAS 1.71:MFS-26124-1-NPO NAS 1.71:MFS-28610-1 NAS 1.71:MFS-28610-1 NAS 1.71:MFS-28707-1 NAS 1.71:MFS-28707-1 NAS 1.71:MFS-28707-1 NAS 1.71:MFS-28723-1 NAS 1.71:MFS-28723-1 NAS 1.71:MFS-28723-1 NAS 1.71:MSC-21842-1 NAS 1.71:MSC-21941-1 NAS 1.71:MSC-21954-1-NP NAS 1.71:MSC-21954-1-NP	P 96 P 149 P 128 P 218 P 217 P 321 P 276 P 276 P 106 P 106 P 354 P 96 P 353 P 106 P 106 P 114	N93-20319
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JPRS-ULS-92-020 p 244 JPRS-ULS-92-022 p 253 JPRS-ULS-92-024 p 40 JPRS-ULS-92-025 p 244 JPRS-ULS-92-027 p 276 JPRS-ULS-92-027 p 276 L-17090 p 50 L-17138 p 124 LA-UR-92-1722 p 5 LA-UR-92-2698 p 51 LA-UR-92-3645 p 217 LA-UR-93-402 p 253 LAIR-471 p 120 LBL-PUB-701 p 82 LC-91-61252 p 173	N93-25406 # N93-25407 # N93-13033 # N93-25405 # N93-25405 # N93-25684 # N93-13023 * # N93-13023 * # N93-15668 # N93-12566 # N93-12566 # N93-12566 # N93-25186 # N93-25186 # N93-25186 # N93-17359 # N93-21498 #	NAS 1.21:512 NAS 1.21:7011(360) NAS 1.21:7011(364) NAS 1.21:7011(365) NAS 1.21:7011(365) NAS 1.21:7011(367) NAS 1.21:7011(368) NAS 1.21:7011(368) NAS 1.21:7011(369) NAS 1.21:7011(370) NAS 1.21:7011(370) NAS 1.21:7011(371) NAS 1.21:7011(373) NAS 1.21:7011(373) NAS 1.21:7011(373) NAS 1.21:7011(373) NAS 1.21:7011(373) NAS 1.26:17602 NAS 1.26:17609 NAS 1.26:184390 NAS 1.26:184490 NAS 1.26:184429 NAS 1.26:184429 NAS 1.26:184429 NAS 1.26:184438	P 112 P 12 P 12 P 12 P 12 P 13 P 53 P 121 P 172 P 172 P 256 P 256 P 256 P 240 P 240 P 240 P 240 P 34 P 34	N93-18545 * # N93-10076 * N93-10077 * N93-10079 * N93-10080 * N93-14731 * N93-14731 * N93-18108 * N93-20089 * N93-21044 * N93-29065 * # N93-220065 * # N93-12900 * #	NAS 1.60:3286 NAS 1.60:3297 NAS 1.60:3298 NAS 1.60:3299 NAS 1.60:3305 NAS 1.61:1304 NAS 1.71:MFS-26124-1-NPO NAS 1.71:MFS-28402-1 NAS 1.71:MFS-28610-1 NAS 1.71:MFS-286810-1 NAS 1.71:MFS-28672-1 NAS 1.71:MFS-28727-1 NAS 1.71:MFS-28723-1 NAS 1.71:MFS-28723-1 NAS 1.71:MFS-28723-1 NAS 1.71:MFS-28723-1 NAS 1.71:MSC-21842-1 NAS 1.71:MSC-21842-1 NAS 1.71:MSC-21954-1-NP NAS 1.71:MSC-21979-1 NAS 1.71:MSC-21979-1 NAS 1.71:MSC-22060-1	P 96 P 149 P 128 P 218 P 217 P 321 P 286 P 276 P 106 P 106 P 353 P 106 P 106 P 114 P 82 P 114	N93-20319 * # N93-20318 * # N93-20318 * # N93-2334
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NASA-CR-185689	р 34	N93-12211 * #	NASA-TM-103949	p 6	N93-12014 * #	PB93-156032	p 245	N93-25877 #	#
NASA-CR-185701-VOL-1	p 274	N93-27122 * #	NASA-TM-103950		N93-12018 * #	PB93-167526	p 286	N93-29199 #	#
NASA-CR-185701-VOL-2	. p 275	N93-27360 * #	NASA-TM-104737		N93-32328 * #	PB93-174720		N93-30659 #	#
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NASA-CR-190930	p 41	N93-13327 * #	NASA-TM-104758	p 128	N93-20303 * #	PB93-179943		N93-30890 #	
NASA-CR-190957	р 50	N93-13061 * #	NASA-TM-104767		N93-23129 * #	PB93-188332	p 338	N93-31138 #	#
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NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570	p 234 p 181 p 172 p 195 p 266 p 217 p 359	N93-22663 * # N93-20908 * # N93-20736 * # N93-22002 * # N93-25888 * # N93-32354 * #	NATICK-TR-93/014	p 235 p 317 p 268 p 194 p 265	N93-28112 # N93-26404 # N93-21269 # N93-25628 #	S-686 S-688 S-690 S-694 S-695 S-696 S-699	p 334 p 31 p 96 p 149 p 128 p 218 p 217	N93-29651 * # N93-11649 * # N93-16619 * # N93-20319 * # N93-20318 * # N93-23734 * # N93-23410 * #	# # # # #
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520	p 234 p 181 p 172 p 195 p 266 p 217 p 359	N93-22663 * # N93-20908 * # N93-20736 * # N93-22002 * # N93-25888 * # N93-22655 * #	NATICK-TR-93/014	p 235 p 317 p 268 p 194 p 265 p 335	N93-28112 # N93-26404 # N93-21269 # N93-25628 #	\$-686	p 334 p 31 p 96 p 149 p 128 p 218 p 217 p 128	N93-29651 * # N93-11649 * # N93-16619 * # N93-20319 * # N93-20318 * # N93-23734 * # N93-23410 * # N93-20303 * #	*
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570	p 234 p 181 p 172 p 195 p 266 p 217 p 359 p 359	N93-22663 * # N93-20908 * # N93-20736 * # N93-22002 * # N93-25888 * # N93-32354 * #	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY	p 235 p 317 p 268 p 194 p 265 p 335 p 63	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 #	S-686 S-688 S-690 S-694 S-695 S-696 S-699	p 334 p 31 p 96 p 149 p 128 p 218 p 217 p 128	N93-29651 * # N93-11649 * # N93-16619 * # N93-20319 * # N93-20318 * # N93-23734 * # N93-23410 * #	*
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570 NASA-CR-192571 NASA-CR-192575	p 234 p 181 p 172 p 195 p 266 p 217 p 359 p 379	N93-22663 * # N93-20908 * # N93-20736 * # N93-22002 * # N93-25888 * # N93-32355 * # N93-32355 * # N93-32365 * #	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026	p 235 p 317 p 268 p 194 p 265 p 335 p 63	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 #	S-686 S-688 S-690 S-690 S-695 S-696 S-696 S-699 S-703 S-717	p 334 p 31 p 96 p 149 p 128 p 218 p 217 p 128 p 234	N93-29651 * # N93-11649 * # N93-16619 * # N93-20319 * # N93-20318 * # N93-23734 * # N93-23410 * # N93-20303 * #	*
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570 NASA-CR-192571 NASA-CR-192575 NASA-CR-192616	p 234 p 181 p 172 p 195 p 266 p 217 p 359 p 379 p 372	N93-22663 * # N93-20908 * # N93-20736 * # N93-22002 * # N93-22685 * # N93-32354 * # N93-32355 * # N93-32356 * # N93-32356 * #	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY	p 235 p 317 p 268 p 194 p 265 p 335 p 63 p 366	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 # N93-32006 #	S-686 S-688 S-690 S-694 S-695 S-696 S-699 S-703 S-717 S-718	p 334 p 31 p 96 p 149 p 128 p 218 p 217 p 128 p 234 p 321	N93-29651 * # N93-11649 * # N93-16619 * # N93-20319 * # N93-20318 * # N93-23734 * # N93-23410 * # N93-23129 * # N93-29324 * #	* * * * * * * * *
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570 NASA-CR-192571 NASA-CR-192616 NASA-CR-192703	ρ 234 ρ 181 ρ 172 ρ 195 ρ 266 ρ 217 ρ 359 ρ 359 ρ 372 ρ 225 ρ 207	N93-22663 * # N93-20908 * # N93-20736 * # N93-22002 * # N93-25888 * # N93-22655 * # N93-32354 * # N93-32356 * # N93-343256 * # N93-22800 * #	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92026-60	p 235 p 317 p 268 p 194 p 265 p 335 p 63 p 366 p 54	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 # N93-32006 # N93-14789 #	\$-686 \$-688 \$-690 \$-694 \$-695 \$-695 \$-696 \$-703 \$-717 \$-718 \$-720	p 334 p 31 p 96 p 149 p 128 p 218 p 217 p 128 p 234 p 321 p 321	N93-29651 * # N93-11649 * # N93-16619 * # N93-20319 * # N93-23734 * # N93-23410 * # N93-2320 * # N93-23129 * # N93-29044 * #	* * * * * * * * * * *
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192570 NASA-CR-192570 NASA-CR-192571 NASA-CR-192575 NASA-CR-192766	ρ 234 ρ 181 ρ 172 ρ 195 ρ 266 ρ 217 ρ 359 ρ 359 ρ 372 ρ 225 ρ 207	N93-22663 * # N93-20908 * # N93-20736 * # N93-22002 * # N93-25888 * # N93-22655 * # N93-32354 * # N93-32356 * # N93-24192 * # N93-24323 * #	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92026-60 NAWCADWAR-92032-60	p 235 p 317 p 268 p 194 p 265 p 335 p 63 p 366 p 54 p 35	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 # N93-32006 # N93-14789 # N93-12486 #	S-686 S-688 S-690 S-694 S-695 S-696 S-699 S-703 S-717 S-718	p 334 p 31 p 96 p 149 p 128 p 218 p 217 p 128 p 234 p 321 p 321	N93-29651 * # N93-11649 * # N93-16619 * # N93-20319 * # N93-23734 * # N93-23410 * # N93-2320 * # N93-23129 * # N93-29044 * #	* * * * * * * * * *
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192470 NASA-CR-192520 NASA-CR-192570 NASA-CR-192571 NASA-CR-192575 NASA-CR-192575 NASA-CR-192616 NASA-CR-192703 NASA-CR-192766 NASA-CR-192766 NASA-CR-192815	p 234 p 181 p 172 p 195 p 266 p 217 p 359 p 359 p 372 p 225 p 207 p 209	N93-22663 * # N93-20908 * # N93-20736 * # N93-22002 * # N93-25688 * # N93-32365 * # N93-32365 * # N93-32365 * # N93-24192 * # N93-22400 * # N93-23169 * #	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92026-60	p 235 p 317 p 268 p 194 p 265 p 335 p 63 p 366 p 54 p 35	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 # N93-32006 # N93-14789 # N93-12486 # N93-12860 #	S-686 S-688 S-690 S-694 S-695 S-696 S-696 S-703 S-717 S-717 S-718 S-720 S-721	p 334 p 31 p 96 p 149 p 128 p 218 p 217 p 128 p 234 p 321 p 321 p 258	N93-29651 * # N93-11649 * # N93-10619 * # N93-20319 * # N93-23734 * # N93-23740 * # N93-23410 * # N93-23129 * # N93-29324 * # N93-29044 * # N93-29736 * #	* * * * * * * * * *
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570 NASA-CR-192571 NASA-CR-192575 NASA-CR-192616 NASA-CR-192703 NASA-CR-192766 NASA-CR-192830	p 234 p 181 p 172 p 195 p 266 p 217 p 359 p 359 p 359 p 207 p 209 p 209 p 244	N93-22663 * # N93-20908 * # N93-20736 * # N93-22002 * # N93-25888 * # N93-22655 * # N93-32354 * # N93-32356 * # N93-24192 * # N93-24323 * #	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92026-60 NAWCADWAR-92032-60	p 235 p 317 p 268 p 194 p 265 p 335 p 63 p 366 p 54 p 35 p 64	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 # N93-32006 # N93-14789 # N93-12486 #	\$-686 \$-688 \$-690 \$-694 \$-695 \$-695 \$-696 \$-703 \$-717 \$-718 \$-720	p 334 p 31 p 96 p 149 p 128 p 218 p 217 p 128 p 234 p 321 p 321 p 258	N93-29651 * # N93-11649 * # N93-10619 * # N93-20319 * # N93-23734 * # N93-23740 * # N93-23410 * # N93-23129 * # N93-29324 * # N93-29044 * # N93-29736 * #	* * * * * * * * * *
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192470 NASA-CR-192520 NASA-CR-192570 NASA-CR-192571 NASA-CR-192575 NASA-CR-192575 NASA-CR-192616 NASA-CR-192703 NASA-CR-192766 NASA-CR-192766 NASA-CR-192815	p 234 p 181 p 172 p 195 p 266 p 217 p 359 p 359 p 359 p 207 p 209 p 209 p 244	N93-22663 * # N93-20908 * # N93-20736 * # N93-22002 * # N93-25688 * # N93-32365 * # N93-32365 * # N93-32365 * # N93-24192 * # N93-22400 * # N93-23169 * #	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92032-60 NAWCADWAR-92037-60 NAWCADWAR-92056-60	p 235 p 317 p 268 p 194 p 265 p 335 p 63 p 366 p 54 p 35 p 64 p 34	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 # N93-32006 # N93-14789 # N93-12486 # N93-12860 #	S-686 S-688 S-690 S-694 S-695 S-696 S-696 S-703 S-717 S-717 S-718 S-720 S-721	p 334 p 31 p 96 p 149 p 128 p 218 p 217 p 128 p 234 p 321 p 321 p 258	N93-29651 * # N93-11649 * # N93-10619 * # N93-20319 * # N93-23734 * # N93-23740 * # N93-23410 * # N93-23129 * # N93-29324 * # N93-29044 * # N93-29736 * #	* * * * * * * * * *
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570 NASA-CR-192571 NASA-CR-192575 NASA-CR-192616 NASA-CR-192703 NASA-CR-192766 NASA-CR-192830	p 234 p 181 p 172 p 196 p 266 p 217 p 359 p 359 p 372 p 207 p 209 p 209 p 204 p 266	N93-22663 * # N93-20908 * # N93-20736 * # N93-22736 * # N93-25888 * # N93-32355 * # N93-32355 * # N93-32355 * # N93-32356 * # N93-22323 * # N93-22323 * # N93-23236 * #	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92032-60 NAWCADWAR-92032-60 NAWCADWAR-92032-60 NAWCADWAR-92036-60 NAWCADWAR-92086-60	p 235 p 317 p 268 p 194 p 265 p 335 p 63 p 366 p 54 p 35 p 64 p 34 p 314	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-12732 # N93-32006 # N93-14789 # N93-12860 # N93-12291 # N93-12291 #	S-686 S-688 S-690 S-694 S-695 S-696 S-696 S-703 S-717 S-717 S-718 S-720 S-721	p 334 p 31 p 96 p 149 p 128 p 218 p 217 p 128 p 234 p 321 p 321 p 325 p 410	N93-29651 * # N93-11649 * # N93-16619 * # N93-20319 * # N93-20318 * # N93-23734 * # N93-23410 * # N93-23129 * # N93-23129 * # N93-29344 * # N93-29344 * # N93-25736 * #	* * * * * * * * * * *
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192382 NASA-CR-192470 NASA-CR-192520 NASA-CR-192570 NASA-CR-192571 NASA-CR-192575 NASA-CR-192616 NASA-CR-192703 NASA-CR-192703 NASA-CR-192703 NASA-CR-192830 NASA-CR-192830 NASA-CR-192982	p 234 p 181 p 179 p 266 p 217 p 359 p 359 p 359 p 379 p 207 p 209 p 209 p 209 p 266 p 266	N93-22663 * # N93-20908 * # N93-20736 * # N93-22002 * # N93-25688 * # N93-32354 * # N93-32355 * # N93-32356 * # N93-224192 * # N93-22400 * # N93-22400 * # N93-226047 * # N93-25242 * # N93-25242 * # N93-26047 * # N93-26088 * #	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92032-60 NAWCADWAR-92037-60 NAWCADWAR-92056-60	p 235 p 317 p 268 p 194 p 265 p 335 p 63 p 366 p 54 p 35 p 64 p 34 p 314	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-12732 # N93-32006 # N93-14789 # N93-12860 # N93-12291 # N93-12291 #	S-686 S-688 S-690 S-694 S-695 S-696 S-699 S-703 S-717 S-718 S-720 S-721 SAE ARD 50027 SAE PAPER 921112	p 334 p 31 p 96 p 149 p 128 p 218 p 217 p 128 p 234 p 321 p 321 p 325 p 410	N93-29651 * # N93-11649 * # N93-10619 * # N93-20318 * # N93-20318 * # N93-23734 * # N93-23410 * # N93-23129 * # N93-29044 * # N93-25736 * # A93-54874	* * * * * * * * * * *
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570 NASA-CR-192571 NASA-CR-192575 NASA-CR-192616 NASA-CR-192703 NASA-CR-192706 NASA-CR-192706 NASA-CR-192815 NASA-CR-192830 NASA-CR-192830 NASA-CR-192842 NASA-CR-192982 NASA-CR-193014	p 234 p 181 p 172 p 196 p 266 p 217 p 359 p 359 p 379 p 207 p 209 p 209 p 209 p 266 p 266 p 217	N93-22663 * # N93-20908 * # N93-20736 * # N93-25888 * # N93-22655 * # N93-32355 * # N93-32355 * # N93-32356 * # N93-22800 * # N93-23233 * # N93-23233 * # N93-25242 * # N93-26047 * # N93-26047 * # N93-27847 * #	NATICK-TR-93/014 NATICK/TR-93/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92032-60 NAWCADWAR-92037-60 NAWCADWAR-92037-60 NAWCADWAR-92056-60 NAWCADWAR-92086-60 NAWCADWAR-92086-60 NAWCADWAR-92088-60	p 235 p 317 p 268 p 194 p 265 p 335 p 63 p 366 p 54 p 35 p 64 p 34 p 314 p 234	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 # N93-12732 # N93-14789 # N93-12486 # N93-12860 # N93-12291 # N93-27927 # N93-23451 #	S-686 S-688 S-690 S-694 S-695 S-696 S-696 S-703 S-717 S-718 S-720 S-721 SAE ARD 50027 SAE PAPER 921112 SAE PAPER 921114	p 334 p 31 p 96 p 149 p 128 p 217 p 128 p 234 p 321 p 321 p 325 p 410 p 289 p 290	N93-29651 * # N93-11649 * # N93-116619 * # N93-20318 * # N93-23734 * # N93-23740 * # N93-23410 * # N93-23410 * # N93-29324 * # N93-29324 * # N93-25736 * # A93-54874 A93-41306 A93-41307	* * * * * * * * * *
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570 NASA-CR-192571 NASA-CR-192575 NASA-CR-192616 NASA-CR-192703 NASA-CR-192766 NASA-CR-192766 NASA-CR-192815 NASA-CR-192815 NASA-CR-192815 NASA-CR-192815 NASA-CR-192815 NASA-CR-192815 NASA-CR-192815 NASA-CR-193014 NASA-CR-193014 NASA-CR-193023	p 234 p 181 p 172 p 195 p 266 p 217 p 359 p 359 p 207 p 209 p 208 p 208 p 208 p 208 p 266 p 267 p 313 p 282	N93-22663 * # N93-20908 * # N93-20736 * # N93-22702 * # N93-25888 * # N93-22655 * # N93-32354 * # N93-32356 * # N93-23233 * # N93-23233 * # N93-23233 * # N93-25242 * # N93-26008 * # N93-26008 * # N93-27113 * #	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92036-60 NAWCADWAR-92037-60 NAWCADWAR-92037-60 NAWCADWAR-92056-60 NAWCADWAR-92056-60 NAWCADWAR-92088-60 NAWCADWAR-92088-60 NAWCADWAR-92088-60 NAWCADWAR-92088-60 NHRC-91-22	p 235 p 317 p 268 p 194 p 265 p 335 p 63 p 366 p 54 p 35 p 64 p 34 p 314 p 234	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 # N93-32006 # N93-12486 # N93-12860 # N93-12891 # N93-23451 # N93-11893 #	S-686 S-688 S-690 S-694 S-695 S-696 S-696 S-703 S-717 S-718 S-720 S-721 SAE ARD 50027 SAE PAPER 921112 SAE PAPER 921114 SAE PAPER 921117	p 334 p 31 p 96 p 149 p 218 p 217 p 128 p 234 p 321 p 321 p 325 p 410 p 289 p 290 p 290	N93-29651 * # N93-11649 * # N93-116619 * # N93-20319 * # N93-20318 * # N93-23734 * # N93-23410 * # N93-23129 * # N93-29044 * # N93-29044 * # N93-29044 * # A93-54874 A93-41306 A93-41306	* * * * * * * * * *
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192382 NASA-CR-192470 NASA-CR-192520 NASA-CR-192570 NASA-CR-192571 NASA-CR-192575 NASA-CR-192575 NASA-CR-192616 NASA-CR-192703 NASA-CR-192703 NASA-CR-192830 NASA-CR-192830 NASA-CR-192982 NASA-CR-192982 NASA-CR-193014 NASA-CR-193014 NASA-CR-193023 NASA-CR-193040	p 234 p 181 p 172 p 195 p 266 p 217 p 359 p 359 p 372 p 225 p 207 p 209 p 209 p 244 p 266 p 267 p 217	N93-22663 * # N93-20908 * # N93-20908 * # N93-22002 * # N93-25688 * # N93-32354 * # N93-32355 * # N93-32356 * # N93-224192 * # N93-22400 * # N93-22400 * # N93-22400 * # N93-22608 * # N93-25242 * # N93-26088 * # N93-26088 * # N93-27647 * #	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92032-60 NAWCADWAR-92032-60 NAWCADWAR-92037-60 NAWCADWAR-92056-60 NAWCADWAR-92086-60	P 235 P 317 P 268 P 194 P 265 P 335 P 63 P 366 P 54 P 34 P 314 P 234 P 23 P 52	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 # N93-32006 # N93-14789 # N93-12860 # N93-12860 # N93-12891 # N93-23451 # N93-11893 # N93-11893 # N93-14240 #	S-686 S-688 S-690 S-694 S-695 S-696 S-699 S-703 S-717 S-718 S-720 S-721 SAE ARD 50027 SAE PAPER 921112 SAE PAPER 921117 SAE PAPER 921117 SAE PAPER 921117 SAE PAPER 921118	p 334 p 31 p 96 p 149 p 128 p 217 p 128 p 234 p 321 p 321 p 321 p 258 p 410 p 289 p 290 p 290 p 290	N93-29651 * # N93-11649 * # N93-116619 * # N93-20318 * # N93-20318 * # N93-23734 * # N93-23410 * # N93-23129 * # N93-29044 * # N93-25736 * # A93-54874 A93-41306 A93-41306 A93-41307 A93-41307	* * * * * * * * * * *
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570 NASA-CR-192571 NASA-CR-192575 NASA-CR-192616 NASA-CR-192703 NASA-CR-192766 NASA-CR-192766 NASA-CR-192830 NASA-CR-192830 NASA-CR-192830 NASA-CR-192974 NASA-CR-192974 NASA-CR-193014 NASA-CR-193014 NASA-CR-193014 NASA-CR-193040 NASA-CR-193041	. p 234 . p 181 . p 172 . p 195 . p 266 . p 217 . p 359 . p 372 . p 225 . p 209 . p 209 . p 244 . p 266 . p 217 . p 539 . p 372 . p 209 . p 244 . p 266 . p 217 . p 209 . p 248 . p 267 . p 27 . p 282 . p 282	N93-22663 * # N93-20908 * # N93-20736 * # N93-22736 * # N93-25888 * # N93-32355 * # N93-32355 * # N93-32355 * # N93-22800 * # N93-22323 * # N93-22323 * # N93-25242 * # N93-25404 * # N93-2544 * # N93-2544 * # N93-27113 * # N93-27113 * # N93-27102 * #	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92032-60 NAWCADWAR-92037-60 NAWCADWAR-92037-60 NAWCADWAR-92056-60 P 235 P 317 P 268 P 194 P 265 P 335 P 63 P 366 P 54 P 34 P 314 P 234 P 234 P 23 P 52 P 121	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 # N93-12732 # N93-14789 # N93-12486 # N93-12860 # N93-12291 # N93-27927 # N93-23451 # N93-23451 # N93-1893 # N93-1893 # N93-18209 #	S-686 S-688 S-690 S-694 S-695 S-696 S-699 S-703 S-717 S-718 S-720 S-721 SAE ARD 50027 SAE PAPER 921112 SAE PAPER 921114 SAE PAPER 921114 SAE PAPER 921118 SAE PAPER 921118 SAE PAPER 921118 SAE PAPER 921119	p 334 p 31 p 96 p 149 p 128 p 218 p 217 p 128 p 234 p 321 p 321 p 321 p 258 p 410 p 289 p 290 p 290 p 290 p 290 p 290	N93-29651 * # N93-11649 * # N93-116619 * # N93-20318 * # N93-23734 * # N93-23740 * # N93-23410 * # N93-2303 * # N93-29044 * # N93-29044 * # N93-25736 * # A93-41306 A93-41307 A93-41309 * A93-41310 *	* * * * * * * * * * *	
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570 NASA-CR-192571 NASA-CR-192575 NASA-CR-192616 NASA-CR-192616 NASA-CR-192703 NASA-CR-192815 NASA-CR-192815 NASA-CR-192815 NASA-CR-192830 NASA-CR-192830 NASA-CR-192982 NASA-CR-1930301 NASA-CR-1930303 NASA-CR-193040 NASA-CR-193040 NASA-CR-193049	. p 234 . p 181 . p 172 . p 195 . p 266 . p 217 . p 359 . p 359 . p 372 . p 207 . p 209	N93-22663 * # N93-20908 * # N93-20736 * # N93-22736 * # N93-25888 * # N93-22655 * # N93-32354 * # N93-32355 * # N93-32356 * # N93-22323 * # N93-22323 * # N93-25242 * # N93-25242 * # N93-26047 * # N93-26047 * # N93-27113 * # N93-27113 * # N93-27102 * # N93-27102 * # N93-26153 * #	NATICK-TR-93/014 NATICK/TR-93/009 NATICK/TR-93/009 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92032-60 NAWCADWAR-92032-60 NAWCADWAR-92032-60 NAWCADWAR-92056-60 NAWCADWAR-92056-60 NAWCADWAR-92056-60 NAWCADWAR-92086-60 NAWCADWAR-92086-60 NAWCADWAR-92086-60 NAWCADWAR-92086-60 NHRC-91-22 NHRC-91-45 NHRC-92-10 NHRC-92-10	P 235 P 317 P 268 P 194 P 265 P 335 P 63 P 366 P 54 P 314 P 234 P 234 P 234 P 23 P 121 P 121	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-32732 # N93-12732 # N93-12860 # N93-12860 # N93-12291 # N93-12291 # N93-23451 # N93-11893 # N93-11893 # N93-11890 # N93-18200 # N93-18200 #	S-686 S-688 S-690 S-694 S-695 S-696 S-699 S-703 S-717 S-718 S-720 S-721 SAE ARD 50027 SAE PAPER 921112 SAE PAPER 921114 SAE PAPER 921117 SAE PAPER 921117 SAE PAPER 921118 SAE PAPER 921118 SAE PAPER 921119 SAE PAPER 921120	p 334 p 31 p 96 p 149 p 128 p 218 p 217 p 128 p 321 p 321 p 321 p 258 p 410 p 289 p 290 p 290 p 290 p 290 p 290 p 290	N93-29651 * #N93-11649 * #N93-11649 * #N93-20318 * #N93-23734 * #N93-23734 * #N93-23129 * #N93-23129 * #N93-29044 * #N93-25736 * #A93-41306 A93-41307 A93-41310 * A93-41311 * A93-41312 *	* * * * * * * * * * *
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570 NASA-CR-192571 NASA-CR-192575 NASA-CR-192616 NASA-CR-192703 NASA-CR-192766 NASA-CR-192766 NASA-CR-192830 NASA-CR-192830 NASA-CR-192830 NASA-CR-192974 NASA-CR-192974 NASA-CR-193014 NASA-CR-193014 NASA-CR-193014 NASA-CR-193040 NASA-CR-193041	. p 234 . p 181 . p 172 . p 195 . p 266 . p 217 . p 359 . p 359 . p 372 . p 207 . p 209	N93-22663 * # N93-20908 * # N93-20736 * # N93-22736 * # N93-25888 * # N93-32355 * # N93-32355 * # N93-32355 * # N93-22800 * # N93-22323 * # N93-22323 * # N93-25242 * # N93-25404 * # N93-2544 * # N93-2544 * # N93-27113 * # N93-27113 * # N93-27102 * #	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92032-60 NAWCADWAR-92037-60 NAWCADWAR-92037-60 NAWCADWAR-92056-60 P 235 P 317 P 268 P 194 P 265 P 335 P 63 P 366 P 54 P 314 P 234 P 234 P 234 P 23 P 121 P 121	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-32732 # N93-12732 # N93-12860 # N93-12860 # N93-12291 # N93-12291 # N93-23451 # N93-11893 # N93-11893 # N93-11890 # N93-18200 # N93-18200 #	S-686 S-688 S-690 S-694 S-695 S-696 S-699 S-703 S-717 S-718 S-720 S-721 SAE ARD 50027 SAE PAPER 921112 SAE PAPER 921117 SAE PAPER 921117 SAE PAPER 921118 SAE PAPER 921119 SAE PAPER 921119 SAE PAPER 921110 SAE PAPER 921100 SAE PAPER 921110 SAE PAPER 921100 SAE PAPER 921120 SAE PAPER 921121	p 334 p 31 p 96 p 149 p 128 p 218 p 218 p 234 p 321 p 321 p 258 p 410 p 289 p 290 p 200 p	N93-29651 * # N93-11649 * # N93-116619 * # N93-20318 * # N93-23734 * # N93-23740 * # N93-23410 * # N93-2303 * # N93-29044 * # N93-29044 * # N93-25736 * # A93-41306 A93-41307 A93-41309 * A93-41310 *	* * * * * * * * * * *	
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192382 NASA-CR-192470 NASA-CR-192470 NASA-CR-192520 NASA-CR-192570 NASA-CR-192571 NASA-CR-192575 NASA-CR-192616 NASA-CR-192703 NASA-CR-192703 NASA-CR-192830 NASA-CR-192830 NASA-CR-192982 NASA-CR-193014 NASA-CR-193014 NASA-CR-193041 NASA-CR-193041 NASA-CR-193044 NASA-CR-193049 NASA-CR-193073	. p 234 . p 181 . p 172 . p 175 . p 266 . p 217 . p 359 . p 359 . p 372 . p 207 . p 209 . p 207 . p 266 . p 267 . p 266 . p 267 . p 208 . p 267 . p 282 . p 282 . p 286 . p 287 . p 276	N93-22663 * # N93-20908 * # N93-20736 * # N93-22736 * # N93-25888 * # N93-22655 * # N93-32354 * # N93-32355 * # N93-32356 * # N93-22323 * # N93-22323 * # N93-25242 * # N93-25242 * # N93-26047 * # N93-26047 * # N93-27113 * # N93-27113 * # N93-27102 * # N93-27102 * # N93-26153 * #	NATICK-TR-93/014 NATICK/TR-93/009 NATICK/TR-93/009 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92032-60 NAWCADWAR-92032-60 NAWCADWAR-92032-60 NAWCADWAR-92056-60 NAWCADWAR-92056-60 NAWCADWAR-92056-60 NAWCADWAR-92086-60 NAWCADWAR-92086-60 NAWCADWAR-92086-60 NAWCADWAR-92086-60 NHRC-91-22 NHRC-91-45 NHRC-92-10 NHRC-92-10	P 235 P 317 P 268 P 194 P 265 P 335 P 63 P 366 P 54 P 314 P 234 P 234 P 234 P 23 P 121 P 121	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-32732 # N93-12732 # N93-12860 # N93-12860 # N93-12291 # N93-12291 # N93-23451 # N93-11893 # N93-11893 # N93-11890 # N93-18200 # N93-18200 #	S-686 S-688 S-690 S-694 S-695 S-696 S-699 S-703 S-717 S-718 S-720 S-721 SAE ARD 50027 SAE PAPER 921112 SAE PAPER 921114 SAE PAPER 921117 SAE PAPER 921117 SAE PAPER 921118 SAE PAPER 921118 SAE PAPER 921119 SAE PAPER 921120	p 334 p 31 p 96 p 149 p 128 p 218 p 218 p 234 p 321 p 321 p 258 p 410 p 289 p 290 p 200 p	N93-29651 * #N93-11649 * #N93-11649 * #N93-20318 * #N93-23734 * #N93-23734 * #N93-23129 * #N93-23129 * #N93-29044 * #N93-25736 * #A93-41306 A93-41307 A93-41310 * A93-41311 * A93-41312 *	* * * * * * * * * * *
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570 NASA-CR-192571 NASA-CR-192575 NASA-CR-192575 NASA-CR-192616 NASA-CR-192703 NASA-CR-192706 NASA-CR-192706 NASA-CR-192830 NASA-CR-192830 NASA-CR-192830 NASA-CR-193041 NASA-CR-193014 NASA-CR-193014 NASA-CR-193040 NASA-CR-193040 NASA-CR-193041 NASA-CR-193049 NASA-CR-193049 NASA-CR-193049 NASA-CR-193073 NASA-CR-193073 NASA-CR-193073	. p 234 . p 181 . p 172 . p 195 . p 266 . p 27 . p 359 . p 359 . p 372 . p 207 . p 207 . p 207 . p 208 . p 207 . p 208 . p 207 . p 208 . p 266 . p 267 . p 282 . p 282 . p 282 . p 267 . p 267 . p 267 . p 267 . p 372	N93-22663 * # N93-20908 * # N93-20908 * # N93-22736 * # N93-25888 * # N93-22655 * # N93-32355 * # N93-32355 * # N93-22492 * # N93-22400 * # N93-22492 * # N93-226047 * # N93-25442 * # N93-25442 * # N93-26047 * # N93-27113 * # N93-27113 * # N93-2713 * # N93-2713 * # N93-2713 * # N93-2713 * # N93-26153 * # N93-26153 * # N93-28895 * #	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92032-60 NAWCADWAR-92037-60 NAWCADWAR-92037-60 NAWCADWAR-92056-60 NAWCADWAR-92056-60 NAWCADWAR-92058-60 NAWCADWAR-92058-60 NAWCADWAR-92058-60 NAWCADWAR-92058-60 NAWCADWAR-92058-60 NHRC-91-125 NHRC-91-125 NHRC-92-10 NHRC-92-12 NHRC-92-12	P 235 P 317 P 268 P 194 P 265 P 335 P 63 P 366 P 54 P 314 P 314 P 234 P 234 P 223 P 121 P 121 P 267	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 # N93-32006 # N93-14789 # N93-12486 # N93-12486 # N93-12291 # N93-12291 # N93-27927 # N93-27927 # N93-23451 # N93-1820 # N93-18209 # N93-18209 # N93-18210 # N93-26229 #	S-686 S-688 S-690 S-694 S-695 S-696 S-699 S-703 S-717 S-718 S-720 S-721 SAE ARD 50027 SAE PAPER 921112 SAE PAPER 921117 SAE PAPER 921117 SAE PAPER 921118 SAE PAPER 921119 SAE PAPER 921119 SAE PAPER 921110 SAE PAPER 921100 SAE PAPER 921110 SAE PAPER 921100 SAE PAPER 921120 SAE PAPER 921121	p 334 p 31 p 96 p 149 p 128 p 218 p 218 p 218 p 224 p 321 p 321 p 321 p 321 p 321 p 258 p 410 p 289 p 290 p 290 p 290 p 290 p 290 p 291	N93-29651 * # N93-11649 * # N93-11669 * # N93-20319 * # N93-20318 * # N93-23734 * # N93-23410 * # N93-232030 * # N93-23129 * # N93-29044 * # N93-25736 * # A93-41306 A93-41307 A93-41310 A93-41311 * A93-41311 * A93-41312 *	* * * * * * * * * * *
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570 NASA-CR-192575 NASA-CR-192575 NASA-CR-192616 NASA-CR-192616 NASA-CR-192703 NASA-CR-192815 NASA-CR-192815 NASA-CR-192815 NASA-CR-192830 NASA-CR-192830 NASA-CR-192982 NASA-CR-193014 NASA-CR-193014 NASA-CR-193040 NASA-CR-193049 NASA-CR-193049 NASA-CR-193073 NASA-CR-193075	. p 234 . p 181 . p 172 . p 195 . p 265 . p 265 . p 267 . p 359 . p 359 . p 372 . p 209 . p 209 . p 209 . p 267 . p 267 . p 276 . p 267 . p 276	N93-22663 * # N93-20908 * # N93-20908 * # N93-22736 * # N93-25888 * # N93-32355 * # N93-32355 * # N93-32355 * # N93-22800 * # N93-22323 * # N93-22323 * # N93-22604 * # N93-2542 * # N93-26047 * # N93-26047 * # N93-27113 * # N93-27113 * # N93-27102 * # N93-27102 * # N93-28415 * # N93-28895 * # N93-26700 * #	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92032-60 NAWCADWAR-92032-60 NAWCADWAR-92036-60 NAWCADWAR-92056-60 NAWCADWAR-92086-60 NAWCADWAR-92086-60 NAWCADWAR-92086-60 NAWCADWAR-92086-60 NAWCADWAR-92086-60 NAWCADWAR-92086-60 NHRC-91-22 NHRC-91-22 NHRC-92-10 NHRC-92-10 NHRC-92-12 NHRC-92-26 NMRI-92-73	P 235 P 317 P 268 P 194 P 235 P 335 P 366 P 34 P 314 P 234 P 234 P 23 P 121 P 121 P 267 P 120	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 # N93-12732 # N93-12860 # N93-12860 # N93-12291 # N93-23451 # N93-1893 # N93-1893 # N93-18200 # N93-18200 # N93-18200 # N93-18200 # N93-18200 # N93-18210 # N93-18210 # N93-18210 # N93-18210 # N93-18210 # N93-18210 # N93-17926 #	S-686 S-688 S-690 S-694 S-695 S-696 S-699 S-703 S-717 S-718 S-720 S-721 SAE ARD 50027 SAE PAPER 921112 SAE PAPER 921114 SAE PAPER 921117 SAE PAPER 921117 SAE PAPER 921118 SAE PAPER 921118 SAE PAPER 921120 SAE PAPER 921120 SAE PAPER 921121 SAE PAPER 921121 SAE PAPER 921121 SAE PAPER 921122 SAE PAPER 921122 SAE PAPER 921123	p 334 p 31 p 96 p 149 p 128 p 218 p 218 p 218 p 234 p 321 p 321 p 321 p 258 p 290 p 290 p 290 p 290 p 290 p 290 p 290 p 290 p 291 p 291 p 291 p 291 p 291 p 291	N93-29651 * #N93-11649 * #N93-11649 * #N93-20318 * #N93-20318 * #N93-23734 * #N93-23410 * #N93-23129 * #N93-29324 * #N93-25736 * #A93-41306 A93-41307 A93-41310 * A93-41311 * A93-41315 * A93-41315	* * * * * * * * * * *
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570 NASA-CR-192575 NASA-CR-192575 NASA-CR-192616 NASA-CR-192703 NASA-CR-192703 NASA-CR-192703 NASA-CR-192830 NASA-CR-192830 NASA-CR-192982 NASA-CR-193014 NASA-CR-193014 NASA-CR-193041 NASA-CR-193041 NASA-CR-193041 NASA-CR-193049 NASA-CR-193073 NASA-CR-193073 NASA-CR-193137 NASA-CR-193156 NASA-CR-193156 NASA-CR-193156	. p 234 . p 181 . p 172 . p 195 . p 216 . p 217 . p 359 . p 359 . p 372 . p 209 . p 20	N93-22663 * # N93-20908 * # N93-22036 * # N93-22002 * # N93-25888 * # N93-32354 * # N93-32355 * # N93-32356 * # N93-22400 * # N93-22400 * # N93-22800 * # N93-25242 * # N93-25242 * # N93-2547 * # N93-27047 * # N93-26088 * # N93-27047 * # N93-27047 * # N93-27113 * # N93-27113 * # N93-27113 * # N93-27113 * # N93-24763 * # N93-27113 * # N93-28415 * # N93-28416 * # N93-29041 * #	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92032-60 NAWCADWAR-92032-60 NAWCADWAR-92037-60 NAWCADWAR-92056-60 NAWCADWAR-92056-60 NAWCADWAR-92056-60 NAWCADWAR-92056-60 NAWCADWAR-92058-60 NAWCADWAR-92058-60 NAWCADWAR-92058-60 NAWCADWAR-92058-60 NHRC-91-22 NHRC-91-25 NHRC-92-10 NHRC-92-10 NHRC-92-26 NMRI-92-73 NMRI-92-73 NMRI-92-85	P 235 P 317 P 268 P 1945 P 265 P 335 P 63 P 366 P 54 P 314 P 234 P 234 P 23 P 121 P 121 P 1267 P 120 P 172	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 # N93-32006 # N93-14789 # N93-12860 # N93-12860 # N93-12891 # N93-23451 # N93-18209 # N93-18200 # N93-18210 # N93-18200 # N93-18210 # N93-18200 # N93-18200 #	S-686 S-688 S-690 S-694 S-695 S-696 S-699 S-703 S-717 S-718 S-720 S-721 SAE ARD 50027 SAE PAPER 921112 SAE PAPER 921117 SAE PAPER 921117 SAE PAPER 921118 SAE PAPER 921119 SAE PAPER 921120 SAE PAPER 921120 SAE PAPER 921120 SAE PAPER 921123	p 334 p 31 p 96 p 149 p 128 p 217 p 128 p 234 p 234 p 321 p 258 p 410 p 289 p 290 p 291 p 290 p 200 p	N93-29651 * #N93-11649 * #N93-11649 * #N93-20319 * #N93-20318 * #N93-23734 * #N93-23129 * #N93-23129 * #N93-29044 * #N93-25736 * #N93-41310 * N93-41310 * N93-41311 * N93-41313 * N93-41313 * N93-41315 * N93-41316 *	* * * * * * * * * * *
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570 NASA-CR-192571 NASA-CR-192575 NASA-CR-192616 NASA-CR-192616 NASA-CR-192703 NASA-CR-192703 NASA-CR-192706 NASA-CR-192830 NASA-CR-192830 NASA-CR-192830 NASA-CR-192830 NASA-CR-192944 NASA-CR-193014 NASA-CR-193014 NASA-CR-193014 NASA-CR-193040 NASA-CR-193040 NASA-CR-193041 NASA-CR-193047 NASA-CR-193049 NASA-CR-193057 NASA-CR-193057 NASA-CR-193157 NASA-CR-193157 NASA-CR-193156 NASA-CR-193233 NASA-CR-193233 NASA-CR-193233	. p 234 . p 181 . p 172 . p 195 . p 266 . p 266 . p 270 . p 359 . p 359 . p 359 . p 205 . p 207 . p 209 . p 209 . p 209 . p 209 . p 267 . p 313 . p 282 . p 284 . p 266 . p 267 . p 277	N93-22663 * # N93-20908 * # N93-20908 * # N93-22736 * # N93-25888 * # N93-22655 * # N93-32355 * # N93-32355 * # N93-22492 * # N93-22492 * # N93-22400 * # N93-22400 * # N93-226047 * # N93-25242 * # N93-26047 * # N93-27113 * # N93-27113 * # N93-27113 * # N93-27113 * # N93-26153 * # N93-26153 * # N93-26153 * # N93-2895 * # N93-28901 * # N93-29041 * # N93-29216 * #	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92032-60 NAWCADWAR-92037-60 NAWCADWAR-92037-60 NAWCADWAR-92037-60 NAWCADWAR-92086-60 NAWCADWAR-92088-60 NAWCADWAR-92088-60 NHRC-91-12 NHRC-91-15 NHRC-92-10 NHRC-92-10 NHRC-92-12 NHRC-92-26 NMRI-92-73 NMRI-92-85 NMRI-93-14	p 235 p 317 p 268 p 194 p 265 p 335 p 63 p 366 p 54 p 34 p 234 p 234 p 234 p 224 p 121 p 121 p 121 p 127 p 120 p 172 p 1336	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 # N93-32006 # N93-14789 # N93-12486 # N93-12486 # N93-12291 # N93-22451 # N93-23451 # N93-18210 # N93-18209 # N93-18210 # N93-18209 # N93-18210 # N93-26229 # N93-20587 # N93-20587 # N93-30882 #	S-686 S-688 S-690 S-694 S-695 S-696 S-699 S-703 S-717 S-718 S-720 S-721 SAE ARD 50027 SAE PAPER 921112 SAE PAPER 921114 SAE PAPER 921118 SAE PAPER 921118 SAE PAPER 921120 SAE PAPER 921121 SAE PAPER 921122 SAE PAPER 921125	p 334 p 31 p 96 p 149 p 128 p 217 p 128 p 231 p 321 p 321 p 321 p 258 p 410 p 290 p 290 p 290 p 290 p 290 p 290 p 290 p 291 p 291 p 291 p 291 p 291	N93-29651 * #N93-11649 * #N93-11649 * #N93-20318 * #N93-23734 * #N93-23410 * #N93-23129 * #N93-29324 * #N93-29324 * #N93-25736 * #A93-41306 A93-41307 A93-41310 A93-41311 * A93-41314 * A93-41314 * A93-41316 A93-41317	* * * * * * * * * * *
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570 NASA-CR-192571 NASA-CR-192575 NASA-CR-192575 NASA-CR-192616 NASA-CR-192703 NASA-CR-192703 NASA-CR-192815 NASA-CR-192815 NASA-CR-192830 NASA-CR-192830 NASA-CR-192974 NASA-CR-192974 NASA-CR-193041 NASA-CR-193041 NASA-CR-193040 NASA-CR-193041 NASA-CR-193041 NASA-CR-193041 NASA-CR-193041 NASA-CR-193041 NASA-CR-193053 NASA-CR-193053 NASA-CR-193053 NASA-CR-193053 NASA-CR-193053 NASA-CR-193053 NASA-CR-193156 NASA-CR-193233 NASA-CR-193233 NASA-CR-193255 NASA-CR-193278	. p 234 . p 181 . p 172 . p 195 . p 266 . p 217 . p 359 . p 359 . p 270 . p 207 . p 209 . p 266 . p 267 . p 267 . p 267 . p 267 . p 277 . p 230	N93-22663 * # N93-20908 * # N93-20908 * # N93-22736 * # N93-25888 * # N93-22655 * # N93-32355 * # N93-32355 * # N93-32356 * # N93-22800 * # N93-23233 * # N93-23233 * # N93-23233 * # N93-26047 * # N93-26047 * # N93-27113 * # N93-27102 * # N93-28415 * # N93-28415 * # N93-28416 * # N93-29041 * # N93-29041 * # N93-29016 * # N93-29016 * #	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92032-60 NAWCADWAR-92032-60 NAWCADWAR-92037-60 NAWCADWAR-92056-60 NAWCADWAR-92056-60 NAWCADWAR-92056-60 NAWCADWAR-92056-60 NAWCADWAR-92058-60 NAWCADWAR-92058-60 NAWCADWAR-92058-60 NAWCADWAR-92058-60 NHRC-91-22 NHRC-91-25 NHRC-92-10 NHRC-92-10 NHRC-92-26 NMRI-92-73 NMRI-92-73 NMRI-92-85	p 235 p 317 p 268 p 194 p 265 p 335 p 63 p 366 p 54 p 34 p 234 p 234 p 234 p 224 p 121 p 121 p 121 p 127 p 120 p 172 p 1336	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 # N93-32006 # N93-14789 # N93-12486 # N93-12486 # N93-12291 # N93-22451 # N93-23451 # N93-18210 # N93-18209 # N93-18210 # N93-18209 # N93-18210 # N93-26229 # N93-20587 # N93-20587 # N93-30882 #	S-686 S-688 S-690 S-694 S-695 S-696 S-696 S-699 S-703 S-717 S-718 S-720 S-721 SAE ARD 50027 SAE PAPER 921112 SAE PAPER 921114 SAE PAPER 92117 SAE PAPER 92118 SAE PAPER 92119 SAE PAPER 921120 SAE PAPER 921120 SAE PAPER 921122 SAE PAPER 921122 SAE PAPER 921123 SAE PAPER 921129	D 334 D 316 D 149 D 128 D 118 D 217 D 217 D 128 D 234 D 234 D 235 D 241 D 258 D 290 D 200 D 200	N93-29651 * #N93-11649 * #N93-11649 * #N93-20318 * #N93-20318 * #N93-20303 * #N93-20303 * #N93-29044 * #N93-25736 * #A93-41310 * A93-41310 * A93-41311 * A93-41315 * A93-41315 * A93-41317 * A93-41319 * A93-41317 * A93-41317 * A93-41317 * A93-41317 * A93-41319 * A93-41317 * A93-41317 * A93-41317 * A93-41317 * A93-41319 * A93-41317 * A93-41319 * A93-41317 * A93-41317 * A93-41317 * A93-41317 * A93-41319 * A93-41317 * A93-41319 * A93-41317 * A93-41317 * A93-41319 * A93-41319 * A93-41319 * A93-41317 * A93-41319 * A93-41319 * A93-41319 * A93-41319 * A93-41319 * A93-41317 * A93-41319	* * * * * * * * * * *
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570 NASA-CR-192575 NASA-CR-192575 NASA-CR-19266 NASA-CR-192703 NASA-CR-192766 NASA-CR-192830 NASA-CR-192830 NASA-CR-192982 NASA-CR-193014 NASA-CR-193014 NASA-CR-193014 NASA-CR-193049 NASA-CR-193041 NASA-CR-193049 NASA-CR-193073 NASA-CR-193137 NASA-CR-193156 NASA-CR-193233 NASA-CR-193233 NASA-CR-1932278 NASA-CR-1932278 NASA-CR-193301	. p 234 . p 181 . p 172 . p 195 . p 265 . p 266 . p 217 . p 359 . p 359 . p 372 . p 209 . p 209 . p 209 . p 209 . p 244 . p 266 . p 267 . p 318 . p 282 . p 283 . p 284 . p 285 . p 276 . p 318 . p 285 . p 276 . p 370 . p 365	N93-22663 * # N93-20908 * # N93-20908 * # N93-22002 * # N93-25888 * # N93-32354 * # N93-32355 * # N93-32356 * # N93-22400 * # N93-22400 * # N93-22800 * # N93-22800 * # N93-27102 * # N93-27047 * # N93-27040 * # N93-27113 * # N93-28895 * # N93-28915 * # N93-28916 * # N93-29216 * # N93-29216 * # N93-29216 * # N93-31844 * #	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92032-60 NAWCADWAR-92032-60 NAWCADWAR-92037-60 NAWCADWAR-92056-60 NAWCADWAR-92056-60 NAWCADWAR-92056-60 NAWCADWAR-92058-60 NAWCADWAR-92058-60 NAWCADWAR-92058-60 NAWCADWAR-92058-60 NHRC-91-22 NHRC-91-25 NHRC-92-10 NHRC-92-10 NHRC-92-26 NMRI-92-73 NMRI-92-73 NMRI-93-14 NMRI-93-1	p 235 p 317 p 268 p 194 p 195 p 335 p 366 p 54 p 335 p 366 p 34 p 34 p 234 p 234 p 227 p 121 p 267 p 120 p 172 p 336	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 # N93-32006 # N93-14789 # N93-12860 # N93-12860 # N93-12891 # N93-12891 # N93-12891 # N93-18299 # N93-18299 # N93-18209 # N93-18210 # N93-18210 # N93-18209 # N93-18210 # N93-18209 # N93-18209 # N93-18210 # N93-18208 # N93-30888 # N93-30888 #	S-686 S-688 S-690 S-694 S-695 S-696 S-699 S-703 S-717 S-718 S-720 S-721 SAE ARD 50027 SAE PAPER 921112 SAE PAPER 921117 SAE PAPER 921117 SAE PAPER 921118 SAE PAPER 921119 SAE PAPER 921100 SAE PAPER 921120 SAE PAPER 921120 SAE PAPER 921120 SAE PAPER 921123 SAE PAPER 921123 SAE PAPER 921123 SAE PAPER 921123 SAE PAPER 921125 SAE PAPER 921125 SAE PAPER 921121 SAE PAPER 921123 SAE PAPER 921123 SAE PAPER 921131 SAE PAPER 921131	D 334 D 316 D 149 D 128 D 218 D 217 D 128 D 234 D 234 D 231 D 258 D 410 D 289 D 290 D 200 D 200	N93-29651 * #N93-11649 * #N93-11649 * #N93-20319 * #N93-20318 * #N93-23734 * #N93-23129 * #N93-23129 * #N93-29044 * #N93-25736 * #N93-2	* * * * * * * * * * *
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570 NASA-CR-192571 NASA-CR-192575 NASA-CR-192575 NASA-CR-192616 NASA-CR-192703 NASA-CR-192703 NASA-CR-192815 NASA-CR-192815 NASA-CR-192830 NASA-CR-192830 NASA-CR-192974 NASA-CR-192974 NASA-CR-193041 NASA-CR-193041 NASA-CR-193040 NASA-CR-193041 NASA-CR-193041 NASA-CR-193041 NASA-CR-193041 NASA-CR-193041 NASA-CR-193053 NASA-CR-193053 NASA-CR-193053 NASA-CR-193053 NASA-CR-193053 NASA-CR-193053 NASA-CR-193156 NASA-CR-193233 NASA-CR-193233 NASA-CR-193255 NASA-CR-193278	. p 234 . p 181 . p 172 . p 195 . p 265 . p 266 . p 217 . p 359 . p 359 . p 372 . p 209 . p 209 . p 209 . p 209 . p 244 . p 266 . p 267 . p 318 . p 282 . p 283 . p 284 . p 285 . p 276 . p 318 . p 285 . p 276 . p 370 . p 365	N93-22663 * # N93-20908 * # N93-20908 * # N93-22736 * # N93-25888 * # N93-22655 * # N93-32355 * # N93-32355 * # N93-32356 * # N93-22800 * # N93-23233 * # N93-23233 * # N93-23233 * # N93-26047 * # N93-26047 * # N93-27113 * # N93-27102 * # N93-28415 * # N93-28415 * # N93-28416 * # N93-29041 * # N93-29041 * # N93-29016 * # N93-29016 * #	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92032-60 NAWCADWAR-92032-60 NAWCADWAR-92037-60 NAWCADWAR-92056-60 NAWCADWAR-92056-60 NAWCADWAR-92056-60 NAWCADWAR-92058-60 NAWCADWAR-92058-60 NAWCADWAR-92058-60 NAWCADWAR-92058-60 NHRC-91-22 NHRC-91-25 NHRC-92-10 NHRC-92-10 NHRC-92-26 NMRI-92-73 NMRI-92-73 NMRI-93-14 NMRI-93-1	p 235 p 317 p 268 p 194 p 195 p 335 p 366 p 54 p 335 p 366 p 34 p 34 p 234 p 234 p 227 p 121 p 267 p 120 p 172 p 336	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 # N93-32006 # N93-14789 # N93-12860 # N93-12860 # N93-12891 # N93-12891 # N93-12891 # N93-18299 # N93-18299 # N93-18209 # N93-18210 # N93-18210 # N93-18209 # N93-18210 # N93-18209 # N93-18209 # N93-18210 # N93-18208 # N93-30888 # N93-30888 #	S-686 S-688 S-690 S-694 S-695 S-696 S-696 S-699 S-703 S-717 S-718 S-720 S-721 SAE ARD 50027 SAE PAPER 921112 SAE PAPER 921114 SAE PAPER 92117 SAE PAPER 92118 SAE PAPER 92119 SAE PAPER 921120 SAE PAPER 921120 SAE PAPER 921122 SAE PAPER 921122 SAE PAPER 921123 SAE PAPER 921129	D 334 D 316 D 149 D 128 D 218 D 217 D 128 D 234 D 234 D 231 D 258 D 410 D 289 D 290 D 200 D 200	N93-29651 * #N93-11649 * #N93-11649 * #N93-20318 * #N93-20318 * #N93-20303 * #N93-20303 * #N93-29044 * #N93-25736 * #A93-41310 * A93-41310 * A93-41311 * A93-41315 * A93-41315 * A93-41317 * A93-41319 * A93-41317 * A93-41317 * A93-41317 * A93-41317 * A93-41319 * A93-41317 * A93-41317 * A93-41317 * A93-41317 * A93-41319 * A93-41317 * A93-41319 * A93-41317 * A93-41317 * A93-41317 * A93-41317 * A93-41319 * A93-41317 * A93-41319 * A93-41317 * A93-41317 * A93-41319 * A93-41319 * A93-41319 * A93-41317 * A93-41319 * A93-41319 * A93-41319 * A93-41319 * A93-41319 * A93-41317 * A93-41319	* * * * * * * * * * *
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NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570 NASA-CR-192575 NASA-CR-192575 NASA-CR-192616 NASA-CR-192616 NASA-CR-192616 NASA-CR-192615 NASA-CR-192815 NASA-CR-192815 NASA-CR-192830 NASA-CR-192830 NASA-CR-193030 NASA-CR-193014 NASA-CR-193014 NASA-CR-193049 NASA-CR-193049 NASA-CR-193049 NASA-CR-193049 NASA-CR-193059 NASA-CR-193059 NASA-CR-193059 NASA-CR-193059 NASA-CR-193059 NASA-CR-193059 NASA-CR-193059 NASA-CR-193073 NASA-CR-193156 NASA-CR-193233 NASA-CR-193245 NASA-CR-193301 NASA-CR-193304 NASA-CR-193304 NASA-CR-193304 NASA-CR-193304 NASA-CR-193304 NASA-CR-193304 NASA-CR-193204 NASA-CR-193204	. p 234 . p 181 . p 172 . p 195 . p 265 . p 265 . p 267 . p 359 . p 359 . p 359 . p 209 . p 209 . p 209 . p 266 . p 267 . p 276 . p 282 . p 282 . p 282 . p 282 . p 286 . p 267 . p 379 . p 379 . p 389	N93-22663 * # N93-20908 * # N93-20908 * # N93-22736 * # N93-25888 * # N93-32355 * # N93-32355 * # N93-32355 * # N93-22800 * # N93-22323 * # N93-22800 * # N93-22323 * # N93-226047 * # N93-25404 * # N93-27113 * # N93-27113 * # N93-27113 * # N93-27102 * # N93-26153 * # N93-26153 * # N93-26153 * # N93-26163 * # N93-29041 * # N93-29041 * # N93-29041 * # N93-29046 * # N93-30665 * # N93-31844 * # N93-35195 *	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92032-60 NAWCADWAR-92032-60 NAWCADWAR-92037-60 NAWCADWAR-92056-60 NAWCADWAR-92056-60 NAWCADWAR-92056-60 NAWCADWAR-92058-60 NAWCADWAR-92058-60 NAWCADWAR-92058-60 NAWCADWAR-92058-60 NHRC-91-22 NHRC-91-25 NHRC-92-10 NHRC-92-10 NHRC-92-26 NMRI-92-73 NMRI-92-73 NMRI-93-14 NMRI-93-1	P 235 P 317 P 268 P 194 P 265 P 335 P 366 P 54 P 35 P 36 P 34 P 314 P 23 P 23 P 23 P 25 P 121 P 121 P 126 P 120 P	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 # N93-32006 # N93-14789 # N93-12860 # N93-12860 # N93-12891 # N93-27927 # N93-27927 # N93-27927 # N93-18210 # N93-18210 # N93-18209 # N93-18209 # N93-18209 # N93-18209 # N93-18209 # N93-17926 # N93-26527 # N93-20587 # N93-30818 # N93-30818 #	S-686 S-688 S-690 S-694 S-695 S-696 S-696 S-699 S-703 S-717 S-718 S-720 S-721 SAE ARD 50027 SAE PAPER 921112 SAE PAPER 921114 SAE PAPER 921117 SAE PAPER 921119 SAE PAPER 921119 SAE PAPER 921120 SAE PAPER 921121 SAE PAPER 921122 SAE PAPER 921123 SAE PAPER 921129 SAE PAPER 921129 SAE PAPER 921131 SAE PAPER 921131 SAE PAPER 921133	D 334 D 316 D 149 D 128 D 118 D 217 D 128 D 234 D 234 D 232 D 232 D 290 D 200 D 200	N93-29651 * #N93-11649 * #N93-11649 * #N93-20318 * #N93-20318 * #N93-23734 * #N93-23129 * #N93-23129 * #N93-25736 * #A93-41306 A93-41306 A93-41310 A93-41311 * A93-41312 A93-41315 A93-41316 A93-41316 A93-41317 A93-41316 A93-41317 A93-41312 A93-41320 A93-41321	* * * * * * * * * * *
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570 NASA-CR-192571 NASA-CR-192575 NASA-CR-19266 NASA-CR-192703 NASA-CR-192703 NASA-CR-192830 NASA-CR-192830 NASA-CR-192982 NASA-CR-192982 NASA-CR-193014 NASA-CR-193014 NASA-CR-193049 NASA-CR-193041 NASA-CR-193049 NASA-CR-193049 NASA-CR-193137 NASA-CR-193137 NASA-CR-193156 NASA-CR-193233 NASA-CR-193245 NASA-CR-193301 NASA-CR-1930301 NASA-CR-193301 NASA-CR-3922(39) NASA-CR-3922(39)	. p 234 . p 181 . p 172 . p 195 . p 266 . p 217 . p 359 . p 369 . p 372 . p 209 . p 209 . p 209 . p 209 . p 244 . p 266 . p 267 . p 282 . p 283 . p 383 . p 384 . p 383 . p 384 . p 383	N93-2663 * # N93-20908 * # N93-20908 * # N93-22036 * # N93-22568 * # N93-22555 * # N93-32354 * # N93-32356 * # N93-24192 * # N93-22800 * # N93-22800 * # N93-22800 * # N93-27102 * # N93-27047 * # N93-27048 * # N93-27048 * # N93-27048 * # N93-28955 * # N93-29216 * # N93-29216 * # N93-29216 * # N93-29216 * # N93-32364 * # N93-25195 * * N93-25195 * *	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92032-60 NAWCADWAR-92032-60 NAWCADWAR-92037-60 NAWCADWAR-92056-60 NAWCADWAR-92056-60 NAWCADWAR-92056-60 NAWCADWAR-92058-60 NAWCADWAR-92058-60 NAWCADWAR-92058-60 NHRC-91-22 NHRC-91-25 NHRC-92-10 NHRC-92-10 NHRC-92-12 NHRC-92-26 NMRI-92-73 NMRI-92-85 NMRI-93-14 NMRI-93-11 NMRI-93-11 NRAD-TD-2456	p 235 p 317 p 268 p 194 p 194 p 335 p 366 p 54 p 335 p 366 p 314 p 234 p 234 p 227 p 121 p 267 p 120 p 172 p 336 p 336 p 336 p 337	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 # N93-32006 # N93-14789 # N93-12860 # N93-12860 # N93-12861 # N93-12891 # N93-12891 # N93-18299 # N93-18299 # N93-18209 # N93-18210 # N93-18210 # N93-18209 # N93-18210 # N93-18210 # N93-18208 # N93-30818 # N93-30882 # N93-30882 # N93-30818 # N93-30897 #	S-686 S-688 S-690 S-694 S-695 S-696 S-699 S-703 S-717 S-718 S-720 S-721 SAE ARD 50027 SAE PAPER 921112 SAE PAPER 921117 SAE PAPER 921117 SAE PAPER 921118 SAE PAPER 921119 SAE PAPER 921120 SAE PAPER 921123 SAE PAPER 921123 SAE PAPER 921123 SAE PAPER 921123 SAE PAPER 921131 SAE PAPER 921132 SAE PAPER 921132 SAE PAPER 921132 SAE PAPER 921133 SAE PAPER 921133 SAE PAPER 921134 SAE PAPER 921135	D 334 D 316 D 149 D 128 D 218 D 217 D 128 D 234 D 232 D 232 D 232 D 232 D 232 D 241 D 258 D 241 D 290 D 200 D 200	N93-29651 * #N93-11649 * #N93-11649 * #N93-20319 * #N93-20318 * #N93-23734 * #N93-23129 * #N93-23129 * #N93-25736 * #N93-2	* * * * * * * * * * *
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570 NASA-CR-192570 NASA-CR-192575 NASA-CR-192575 NASA-CR-192616 NASA-CR-192616 NASA-CR-192703 NASA-CR-192703 NASA-CR-192830 NASA-CR-192830 NASA-CR-192982 NASA-CR-193014 NASA-CR-193010 NASA-CR-193001 NASA-CR-193001 NASA-CR-193001 NASA-CR-193001 NASA-CR-1966 NASA-CR-4466 NASA-CR-4466	. p 234 . p 181 . p 172 . p 195 . p 266 . p 217 . p 359 . p 359 . p 359 . p 209 . p 267 . p 267 . p 282 . p 283 . p 284 . p 363 . p 363 . p 363 . p 364 . p 364 . p 364 . p 364 . p 310 . p 310	N93-2663 * # N93-20908 * # N93-20908 * # N93-22036 * # N93-22565 * # N93-32355 * # N93-32355 * # N93-32356 * # N93-22490 * # N93-22490 * # N93-22490 * # N93-226047 * # N93-2542 * # N93-27100 * # N93-27113 * # N93-2895 * # N93-28415 * # N93-28415 * # N93-28415 * # N93-28416 * #	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92032-60 NAWCADWAR-92037-60 NAWCADWAR-92037-60 NAWCADWAR-92037-60 NAWCADWAR-92086-60 NAWCADWAR-92088-60 NAWCADWAR-92088-60 NHRC-91-22 NHRC-91-45 NHRC-92-10 NHRC-92-12 NHRC-92-26 NMRI-92-73 NMRI-92-85 NMRI-93-14 NMRI-93-1	p 235 p 317 p 268 p 194 p 194 p 335 p 366 p 54 p 335 p 366 p 314 p 234 p 234 p 227 p 121 p 267 p 120 p 172 p 336 p 336 p 336 p 337	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 # N93-32006 # N93-14789 # N93-12860 # N93-12860 # N93-12891 # N93-27927 # N93-27927 # N93-27927 # N93-18210 # N93-18210 # N93-18209 # N93-18209 # N93-18209 # N93-18209 # N93-18209 # N93-17926 # N93-26527 # N93-20587 # N93-30818 # N93-30818 #	S-686 S-688 S-690 S-694 S-695 S-696 S-699 S-703 S-717 S-718 S-720 S-721 SAE ARD 50027 SAE PAPER 921112 SAE PAPER 921114 SAE PAPER 921117 SAE PAPER 921118 SAE PAPER 921118 SAE PAPER 921120 SAE PAPER 921121 SAE PAPER 921125 SAE PAPER 921125 SAE PAPER 921125 SAE PAPER 921131 SAE PAPER 921132 SAE PAPER 921132 SAE PAPER 921132 SAE PAPER 921132 SAE PAPER 921133 SAE PAPER 921134 SAE PAPER 921134 SAE PAPER 921135	D 334 D 316 D 149 D 128 D 217 D 128 D 237 D 321 D 232 D 232 D 232 D 232 D 241 D 258 D 241 D 290 D 200 D 200	N93-29651 * #N93-11649 * #N93-11649 * #N93-20318 * #N93-20318 * #N93-23734 * #N93-23129 * #N93-23129 * #N93-25736 * #A93-41306 A93-41306 A93-41310 A93-41311 * A93-41312 * A93-41315 A93-41315 A93-41316 A93-41317 A93-41316 A93-41317 A93-41312 A93-41320 A93-41321 A93-41320 A93-41321 A93-41320 A93-41320 A93-41320 A93-41322 * A93-41324 * A93-413	* * * * * * * * * * *
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570 NASA-CR-192575 NASA-CR-192575 NASA-CR-192616 NASA-CR-192616 NASA-CR-192616 NASA-CR-192616 NASA-CR-192815 NASA-CR-192815 NASA-CR-192815 NASA-CR-192815 NASA-CR-192830 NASA-CR-19282 NASA-CR-193001 NASA-CR-193014 NASA-CR-193014 NASA-CR-193049 NASA-CR-193049 NASA-CR-193049 NASA-CR-193049 NASA-CR-193059 NASA-CR-193156 NASA-CR-193059 NASA-CR-193233 NASA-CR-193233 NASA-CR-193301 NASA-CR-193304 NASA-CR-193301 NASA-CR-193278 NASA-CR-193304 NASA-CR-193204 NASA-CR-193004 NASA-CR-4466 NASA-CR-4467 NASA-CR-4467	. p 234 . p 181 . p 172 . p 195 . p 265 . p 265 . p 267 . p 359 . p 359 . p 359 . p 209 . p 209 . p 209 . p 266 . p 267 . p 276 . p 286 . p 386 . p 386 . p 386 . p 386 . p 363 . p 364 . p 310	N93-22663 * # N93-20908 * # N93-20908 * # N93-22736 * # N93-25888 * # N93-22655 * # N93-32355 * # N93-32355 * # N93-32356 * # N93-22800 * # N93-22169 * # N93-2542 * # N93-26047 * # N93-27113 * # N93-27113 * # N93-27113 * # N93-27113 * # N93-28415 * # N93-28415 * # N93-28415 * # N93-28416 * # N93-29041 * # N93-29041 * # N93-29041 * # N93-32665 * # N93-31844 * # N93-32169 * # N93-32169 * # N93-32169 * # N93-25195 * # N93-27101 * # N93-27101 * # N93-27101 * #	NATICK-TR-93/014 NATICK/TR-93/009 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92032-60 NAWCADWAR-92032-60 NAWCADWAR-92036-60 NAWCADWAR-92086-60 NAWC-91-22 NHRC-91-22 NHRC-91-25 NHRC-92-10 NHRC-92-10 NHRC-92-12 NHRC-92-12 NHRC-92-12 NHRC-92-13 NMRI-92-13 NMRI-92-14 NMRI-93-1 NRAD-TD-2454 NRAD-TD-2456 NRL/FR/5534-92-9375	p 235 p 317 p 268 p 194 p 265 p 335 p 366 p 54 p 34 p 314 p 234 p 234 p 224 p 121 p 267 p 120 p 172 p 136 p 336 p 366	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 # N93-12732 # N93-12860 # N93-12860 # N93-12291 # N93-12861 # N93-1893 # N93-1893 # N93-181893 # N93-18210 # N93-18209 # N93-18210 # N93-18210 # N93-30818 # N93-30818 # N93-30818 # N93-30818 # N93-30818 # N93-30897 #	S-686 S-688 S-690 S-694 S-695 S-696 S-699 S-703 S-717 S-718 S-720 S-721 SAE ARD 50027 SAE PAPER 921112 SAE PAPER 921114 SAE PAPER 921114 SAE PAPER 921118 SAE PAPER 921119 SAE PAPER 921120 SAE PAPER 921121 SAE PAPER 921122 SAE PAPER 921123 SAE PAPER 921133 SAE PAPER 921133 SAE PAPER 921134 SAE PAPER 921134 SAE PAPER 921135 SAE PAPER 921135 SAE PAPER 921136 SAE PAPER 921136 SAE PAPER 921136	D 334 D 314 D 316 D 149 D 128 D 128 D 127 D 128 D 231 D 232 D 232 D 290	N93-29651 * #N93-11649 * #N93-11649 * #N93-20318 * #N93-20318 * #N93-23734 * #N93-23129 * #N93-29324 * #N93-29324 * #N93-29324 * #N93-25736 * #A93-41306 A93-41307 A93-41311 * A93-41312 * A93-41314 * A93-41315 A93-41317 A93-41317 A93-41317 A93-41317 A93-41317 A93-41317 A93-41317 A93-41317 A93-41317 A93-41321 A93-41321 A93-41321 A93-41322 A93-41322 A93-41322 A93-41323 * A93-41325 *	* * * * * * * * * * *
NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192570 NASA-CR-192575 NASA-CR-192575 NASA-CR-192616 NASA-CR-19266 NASA-CR-192703 NASA-CR-192703 NASA-CR-192830 NASA-CR-192830 NASA-CR-192974 NASA-CR-192982 NASA-CR-193014 NASA-CR-193014 NASA-CR-193014 NASA-CR-193049 NASA-CR-193041 NASA-CR-193049 NASA-CR-193137 NASA-CR-193156 NASA-CR-193156 NASA-CR-193233 NASA-CR-193245 NASA-CR-193011 NASA-CR-193233 NASA-CR-193245 NASA-CR-193304 NASA-CR-193304 NASA-CR-193304 NASA-CR-193233 NASA-CR-193233 NASA-CR-193245 NASA-CR-193301 NASA-CR-193301 NASA-CR-193301 NASA-CR-193301 NASA-CR-193301 NASA-CR-193301 NASA-CR-193301 NASA-CR-193278 NASA-CR-193301 NASA-CR-194466 NASA-CR-44467 NASA-CR-44475 NASA-CR-44475	. p 234 . p 181 . p 172 . p 195 . p 265 . p 266 . p 217 . p 359 . p 359 . p 372 . p 207 . p 207 . p 207 . p 208 . p 267 . p 267 . p 267 . p 282 . p 282 . p 282 . p 286 . p 287 . p 310	N93-22663 * # N93-20908 * # N93-20908 * # N93-22002 * # N93-25888 * # N93-32354 * # N93-32355 * # N93-32356 * # N93-22400 * # N93-22542 * # N93-22800 * # N93-22542 * # N93-25242 * # N93-27102 * # N93-27113 * # N93-27103 * # N93-27113 * # N93-27113 * # N93-27113 * # N93-27113 * # N93-27114 * # N93-28415 * # N93-28415 * # N93-28415 * # N93-29216 * # N93-29216 * # N93-29216 * # N93-2934 * # N93-25195 * * N93-27100 * # N93-27101 * # N93-15583 * #	NATICK-TR-93/014 NATICK/TR-92/028 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-992-90-SY NAWCADWAR-92032-60 NAWCADWAR-92032-60 NAWCADWAR-92037-60 NAWCADWAR-92056-60 NAWCADWAR-92056-60 NAWCADWAR-92056-60 NAWCADWAR-92058-60 NAWCADWAR-92058-60 NAWCADWAR-92058-60 NHRC-91-22 NHRC-91-25 NHRC-92-10 NHRC-92-10 NHRC-92-12 NHRC-92-26 NMRI-92-73 NMRI-92-85 NMRI-93-14 NMRI-93-11 NMRI-93-11 NRAD-TD-2456	p 235 p 317 p 268 p 194 p 265 p 335 p 63 p 366 p 54 p 34 p 314 p 234 p 234 p 22 p 121 p 267 p 120 p 172 p 336 p 366 p 34 p 34 p 314 p 234 p 121 p 267 p 121 p 267 p 336 p 336 p 336 p 337 p 366 p 337 p 366 p 316 p 316	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 # N93-32006 # N93-14789 # N93-12860 # N93-12860 # N93-12861 # N93-12891 # N93-12891 # N93-18299 # N93-18299 # N93-18209 # N93-18210 # N93-18210 # N93-18209 # N93-18210 # N93-18210 # N93-18208 # N93-30818 # N93-30882 # N93-30882 # N93-30818 # N93-30897 #	S-686 S-688 S-690 S-694 S-695 S-696 S-699 S-703 S-717 S-718 S-720 S-721 SAE ARD 50027 SAE PAPER 921112 SAE PAPER 921117 SAE PAPER 921117 SAE PAPER 921117 SAE PAPER 921118 SAE PAPER 921119 SAE PAPER 921120 SAE PAPER 921123 SAE PAPER 921123 SAE PAPER 921123 SAE PAPER 921123 SAE PAPER 921131 SAE PAPER 921132 SAE PAPER 921132 SAE PAPER 921133 SAE PAPER 921134 SAE PAPER 921135 SAE PAPER 921135 SAE PAPER 921135 SAE PAPER 921136 SAE PAPER 921138 SAE PAPER 921138	D 334 D 316 D 149 D 128 D 218 D 217 D 128 D 234 D 232 D 232 D 232 D 232 D 232 D 241 D 258 D 241 D 290 D 200 D 200	N93-29651 * #N93-11649 * #N93-11649 * #N93-20319 * #N93-20318 * #N93-23734 * #N93-23129 * #N93-23129 * #N93-25736 * #N93-2	* * * * * * * * * * *
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NASA-CR-192343 NASA-CR-192361 NASA-CR-192382 NASA-CR-192470 NASA-CR-192481 NASA-CR-192520 NASA-CR-192520 NASA-CR-192570 NASA-CR-192571 NASA-CR-192575 NASA-CR-192616 NASA-CR-192616 NASA-CR-192616 NASA-CR-192615 NASA-CR-192815 NASA-CR-192815 NASA-CR-192815 NASA-CR-192820 NASA-CR-192820 NASA-CR-192820 NASA-CR-193001 NASA-CR-1930014 NASA-CR-1930040 NASA-CR-1930040 NASA-CR-193041 NASA-CR-193049 NASA-CR-193049 NASA-CR-193137 NASA-CR-193137 NASA-CR-193156 NASA-CR-193156 NASA-CR-193223 NASA-CR-193233 NASA-CR-193245 NASA-CR-193245 NASA-CR-193245 NASA-CR-193245 NASA-CR-193246 NASA-CR-193246 NASA-CR-193204 NASA-CR-193204 NASA-CR-193204 NASA-CR-193204 NASA-CR-193204 NASA-CR-193204 NASA-CR-193204 NASA-CR-193204 NASA-CR-193204 NASA-CR-4466 NASA-CR-4467 NASA-CR-4467 NASA-CR-4475 NASA-CR-4476 NASA-CR-4477 NASA-CR-4477 NASA-CR-4477 NASA-CR-4477 NASA-CR-4477 NASA-CR-23-1 NASA-SP-7011(366) NASA-SP-7011(366) NASA-SP-7011(366) NASA-SP-7011(366) NASA-SP-7011(366) NASA-SP-7011(366) NASA-SP-7011(366)	. P 234 . P 181 . P 172 . P 195 . P 266 . P 217 . P 359 . P 359 . P 372 . P 207 . P 209 . P 207 . P 209 . P 266 . P 267 . P 276 . P 286 . P 287 . P 310 . P 31	N93-22663 * # N93-20908 * # N93-20908 * # N93-22036 * # N93-25688 * # N93-32355 * # N93-32355 * # N93-32355 * # N93-22800 * # N93-226047 * # N93-27113 * # N93-26153 * # N93-25195 * # N93-18545 * # N93-10076 * N93-10076 * N93-10077 * N93-10079 * N93-10080 *	NATICK-TR-93/014 NATICK/TR-93/009 NATICK/TR-93/009 NATICK/TR-93/009 NATICK/TR-93/013 NATICK/TR-93/026 NAWCADPAX-TM-92-37-SY NAWCADPAX-TM-92-90-SY NAWCADWAR-92032-60 NAWCADWAR-92032-60 NAWCADWAR-92056-60 NAWCADWAR-92086-60 NAWCADWAR-92086-60 NAWCADWAR-92086-60 NAWCADWAR-92086-60 NHRC-91-22 NHRC-91-22 NHRC-91-25 NHRC-92-10 NHRC-92-10 NHRC-92-12 NHRC-92-12 NHRC-92-15 NMRI-92-15 NMRI-92-15 NMRI-92-15 NMRI-93-1 NRAD-TD-2454 NRAD-TD-2454 NRAD-TD-2456 NRL/FR/5534-92-9375 NSF-92-19 NSMRL-1182 NSMRL-1182 NSMRL-1187 NUWC-NL-TR-10193 OHEA-E-367 ORAU-92/F8 OUEL-1941/92 PB92-204973 PB92-204973 PB92-204973 PB92-204973	P 235 P 317 P 268 P 194 P 295 P 335 P 366 P 34 P 34 P 314 P 234 P 23 P 52 P 121 P 267 P 120 P 172 P 336 P 346 P 347 P 320 P 32	N93-28112 # N93-26404 # N93-21269 # N93-25628 # N93-30196 # N93-12732 # N93-12732 # N93-12860 # N93-14286 # N93-12860 # N93-12861 # N93-12861 # N93-18299 # N93-18299 # N93-18299 # N93-18210 # N93-18210 # N93-18209 # N93-30882 # N93-30818 # N93-30818 # N93-30897 # N93-30897 # N93-19449 # N93-19448 # N93-19449 #	S-686 S-688 S-690 S-694 S-695 S-696 S-699 S-703 S-717 S-718 S-720 S-721 S-718 S-720 S-721 S-718 S-720 S-721 S-718 S-720 S-721 S-728 S-721 S-728 S-721 S-729 S-721 S-729 S-721 S-729 S-721 S-720	D 334 D 316 D 149 D 129 D 1218 D 218 D 217 D 128 D 234 D 231 D 232 D 233 D 234 D 234 D 234	N93-29651 * #N93-11649 * #N93-11649 * #N93-116619 * #N93-20318 * #N93-20318 * #N93-23734 * #N93-23129 * #N93-23129 * #N93-23129 * #N93-25736 * * N93-25736 * N9	* * * * * * * * * * *

SAE PAPER 921189

REPORT NUMBER INDEX

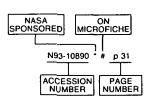
SAE PAPER 921189							- 054	NOO 00007	
			SAE PAPER 921393			US-PATENT-CLASS-244-122			
SAE PAPER 921191	р 287	A93-41369	SAE PAPER 921394			US-PATENT-CLASS-244-158R		N93-14713 *	
SAE PAPER 921193	p 295	A93-41371	SAE PAPER 921396			US-PATENT-CLASS-244-162		N93-14713 *	
SAE PAPER 921197			SAE PAPER 921397			US-PATENT-CLASS-272-145		N93-14713 *	
SAE PAPER 921198			SAE PAPER 921400			US-PATENT-CLASS-280-1.5		N93-14708 *	
SAE PAPER 921199			SAE PAPER 921410			US-PATENT-CLASS-280-290		N93-14708 *	
SAE PAPER 921200			SAE PAPER 921414	p 310	A93-41565 *	US-PATENT-CLASS-280-87.051		N93-14708	
SAE PAPER 921201						US-PATENT-CLASS-297-423		N93-14713 *	
SAE PAPER 921210			SAND-91-2603C		N93-17230 #	US-PATENT-CLASS-395-23			
SAE PAPER 921211			SAND-92-1903C			US-PATENT-CLASS-435-240.241		N93-10110	
SAE PAPER 921212	р 273	A93-41388	SAND-92-2392			US-PATENT-CLASS-435-240.24		N93-10109 '	
SAE PAPER 921213			SAND-93-0361C	p 330	N93-30483 #	US-PATENT-CLASS-435-240.24		N93-10110 *	
SAE PAPER 921214						US-PATENT-CLASS-435-240.25		N93-10109	
SAE PAPER 921215	p 274	A93-41391	SDAG-TN-86-01	p 266	N93-26047 * #	US-PATENT-CLASS-435-240.25		N93-10110 *	
SAE PAPER 921216	p 296	A93-41392				US-PATENT-CLASS-435-240.46	•	N93-10109 *	
SAE PAPER 921227	р 296	A93-41401	SGEB-22	p 43	N93-15208 #	US-PATENT-CLASS-435-240.46		N93-10110 *	
SAE PAPER 921228	p 296	A93-41402				US-PATENT-CLASS-435-7.32			
SAE PAPER 921230	р 296	A93-41404	SPIE-1453			US-PATENT-CLASS-435-7.92		N93-25994 *	
SAE PAPER 921231	p 297	A93-41405 *	SPIE-1456			US-PATENT-CLASS-435-818		N93-10110 '	
SAE PAPER 921232	p 297	A93-41406 *	SPIE-1612			US-PATENT-CLASS-435-874			
SAE PAPER 921233	р 297	A93-41407	SPIE-1668			US-PATENT-CLASS-436-518		N93-25994 *	
SAE PAPER 921234	р 297	A93-41408	SPIE-1669			US-PATENT-CLASS-482-68		N93-14708 *	
SAE PAPER 921238	p 297	A93-41411	SPIE-1695			US-PATENT-CLASS-482-69		N93-14708 *	
SAE PAPER 921239	p 297	A93-41412	SPIE-1829	p 190	A93-29101 °	US-PATENT-CLASS-623-57		N93-14870	
SAE PAPER 921241	p 298	A93-41413 *				US-PATENT-CLASS-623-65	p 70	N93-14870 *	
SAE PAPER 921247	р 298	A93-41418	SRS/STG-PR93-5738/17	p 266	N93-25888 * #				
SAE PAPER 921248	p 298	A93-41419 *				US-PATENT-4,865,270		N93-14713 °	
SAE PAPER 921249	p 298	A93-41420	SRS/STG-TR92-01-VOL-3-APP-C	p 64	N93-12990 * #	US-PATENT-5,153,133		N93-10110	
SAE PAPER 921253	p 298	A93-41423 *				US-PATENT-5,155,035		N93-10109 "	
SAE PAPER 921254	p 298	A93-41424 *	STI-TR-8925-001	p 314	N93-27927 #	US-PATENT-5,163,966		N93-14870	
SAE PAPER 921255	p 299	A93-41425 *				US-PATENT-5,174,590		N93-14708 °	
SAE PAPER 921256	р 299	A93-41426	STS-40	p 80	N93-15823 * #	US-PATENT-5,176,342		N93-29607	
SAE PAPER 921257	р 299	A93-41427				US-PATENT-5,176,836			
SAE PAPER 921258			TDCK-92-0240	p 58	N93-14602 #	US-PATENT-5,177,816		N93-29606	
SAE PAPER 921261	p 299	A93-41431	TDCK-92-2282		N93-15400 #	US-PATENT-5,210,019		N93-25994 *	
SAE PAPER 921264			TDCK-92-2288	p 57	N93-14267 #	US-PATENT-5,228,113	p 340	N93-29610 °	
SAE PAPER 921265	p 299	A93-41435							
SAE PAPER 921266	p 300	A93-41436 *	TN-93-4	p 336	N93-30588 #	USAARL-92-25		N93-14090 #	
SAE PAPER 921267						USAARL-92-32		N93-20400 #	
SAE PAPER 921268			TR-1619-1-1		N93-22663 * #	USAARL-92-33			
SAE PAPER 921269			TR-1619-1-2		N93-26088 * #	USAARL-92-35	p 255		
SAE PAPER 921270	p 300	A93-41440	TR-16	p 219	N93-24238 #	USAARL-92-36			
SAE PAPER 921271	p 300	A93-41441 *	TR-2		N93-15329 #	USAARL-93-10			
SAE PAPER 921272	p 301	A93-41442	TR-405	p 59	N93-14660 #	USAARL-93-3			
SAE PAPER 921274		A93-41443 *	TR-62	p 224	N93-23960 #	USAARL-93-4			
SAE PAPER 921275	р 301	A93-41444 *	TR-89-2		N93-13612 * #	USAARL-93-5			
SAE PAPER 921276	р 301	A93-41445 *	TR-92-1-ONR		N93-11415 #	USAARL-93-8			
SAE PAPER 921277	р 301	A93-41446	TR-970	p 333	N93-29421 #	USAARL-93-9	p 268	N93-26265 #	,
SAE PAPER 921281	р 302	A93-41449							
SAE PAPER 921282	р 302	A93-41450	TTC-1121	p 97	N93-17230 #	USAATCOM-TR-92-A-001	p 222	N93-24738 * #	t
SAE PAPER 921285	р 302	A93-41451				•			
SAE PAPER 921286	р 302	A93-41452 *	UAH-835-REV-1.1	p 64	N93-12966 * #	USAEHA-TG-189	p 51	N93-13941 #	,
SAE PAPER 921287									
SAE PAPER 921298	р 302	A93-41463 *	UCRL-JC-109874	p 5	N93-10974 #	USARIEM-TN-92-2	p 23	N93-12145 #	*
SAE PAPER 921299									
SAE PAPER 921303	p 282	A93-41468 *	UMTRI-93-10	p 336	N93-30659 #	USARIEM-T1-93			
SAE PAPER 921310	р 303	A93-41472 *				USARIEM-T10-92			
SAE PAPER 921311			URC-80356-VOL-1			USARIEM-T7-93			
SAE PAPER 921312			URC-80356-VOL-2	p 2/5	N93-27360 - #	USARIEM-T8-92	p 64-	N93-12960 #	
SAE PAPER 921313				- 070					
SAE PAPER 921316	р 303					UCCC D 40 00	- 70	NOO 44554 #	
SAE PAPER 921318			US-PATENT-APPL-SN-024547			USCG-D-13-92		N93-14554 #	
		A93-41480	US-PATENT-APPL-SN-029808	p 288	N93-28128 * #	USCG-D-13-92			
SAE PAPER 921320	р 304	A93-41480 A93-41482	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-035345	p 288 p 353	N93-28128 * # N93-29845 * #	USCG-D-16-92	р 107	N93-17697 #	ŧ
SAE PAPER 921320 SAE PAPER 921321	p 304 p 304	A93-41480 A93-41482 A93-41483 *	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-035345 US-PATENT-APPL-SN-045142	p 288 p 353 p 276	N93-28128 * # N93-29845 * # N93-29174 * #		р 107	N93-17697 #	ŧ
SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322	p 304 p 304 p 304	A93-41480 A93-41482 A93-41483 * A93-41484 *	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-035345 US-PATENT-APPL-SN-045142 US-PATENT-APPL-SN-213558	p 288 p 353 p 276 p 5	N93-28128 * # N93-29845 * # N93-29174 * # N93-10110 *	USCG-R&DC-03/92	ρ 107 ρ 70	N93-17697 # N93-14554 #	ŧ
SAE PAPER 921320SAE PAPER 921321SAE PAPER 921322SAE PAPER 921323SAE PAPER 921323	p 304 p 304 p 304 p 304	A93-41480 A93-41482 A93-41483 * A93-41484 *	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-035345 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559	p 288 p 353 p 276 p 5 p 4	N93-28128 * # N93-29845 * # N93-29174 * # N93-10110 * N93-10109 *	USCG-D-16-92	ρ 107 ρ 70	N93-17697 # N93-14554 #	‡ ‡
SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322 SAE PAPER 921323 SAE PAPER 921332	p 304 p 304 p 304 p 304 p 304	A93-41480 A93-41482 A93-41483 * A93-41484 * A93-41485 A93-41493	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-035345 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559 US-PATENT-APPL-SN-254052	p 288 p 353 p 276 p 5 p 4 p 70	N93-28128 * # N93-29845 * # N93-29174 * # N93-10110 * N93-10109 * N93-14713 *	USCG-R&DC-03/92 UTHSCSA-OPH-93-01	р 107 р 70 р 338	N93-17697 # N93-14554 # N93-31094 #	‡ ‡
SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322 SAE PAPER 921323 SAE PAPER 921332 SAE PAPER 921338	p 304 p 304 p 304 p 304 p 305	A93-41480 A93-41482 A93-41483 • A93-41484 • A93-41485 A93-41493 A93-41497	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-035345 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559 US-PATENT-APPL-SN-254052 US-PATENT-APPL-SN-501908	p 288 p 353 p 276 p 5 p 4 p 70 p 245	N93-28128 * # N93-29845 * # N93-29174 * # N93-10110 * N93-10109 * N93-14713 * N93-25994 *	USCG-R&DC-03/92	р 107 р 70 р 338	N93-17697 # N93-14554 # N93-31094 #	‡ ‡
SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322 SAE PAPER 921323 SAE PAPER 921332 SAE PAPER 921338 SAE PAPER 921344	p 304 p 304 p 304 p 304 p 305 p 305	A93-41480 A93-41482 A93-41483 * A93-41484 * A93-41485 A93-41493 A93-41497 A93-41503 *	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-035345 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559 US-PATENT-APPL-SN-254052 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-5045233	p 288 p 353 p 276 p 5 p 4 p 70 p 245 p 4	N93-28128 * # N93-29845 * # N93-29174 * # N93-10110 * N93-10109 * N93-14713 * N93-25994 * N93-10109 *	USCG-D-16-92	p 107 p 70 p 338 p 195	N93-17697 # N93-14554 # N93-31094 # N93-21753 #	# # #
SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322 SAE PAPER 921323 SAE PAPER 921332 SAE PAPER 921338 SAE PAPER 921344 SAE PAPER 921344 SAE PAPER 921345	p 304 p 304 p 304 p 304 p 305 p 305 p 305	A93-41480 A93-41482 A93-41483 * A93-41484 * A93-41485 A93-41497 A93-41503 * A93-41503 *	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-035345 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559 US-PATENT-APPL-SN-254052 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-545233 US-PATENT-APPL-SN-671603	p 288 p 353 p 276 p 5 p 4 p 70 p 245 p 4 p 112	N93-28128 * # N93-29845 * # N93-29174 * # N93-10110 * N93-10109 * N93-14713 * N93-25994 * N93-10109 * N93-18351 *	USCG-D-16-92	p 107 p 70 p 338 p 195 p 194	N93-17697 # N93-14554 # N93-31094 # N93-21753 # N93-21537 #	# # #
SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322 SAE PAPER 921323 SAE PAPER 921332 SAE PAPER 921338 SAE PAPER 921344 SAE PAPER 921344 SAE PAPER 921345 SAE PAPER 921346	p 304 p 304 p 304 p 304 p 305 p 305 p 305	A93-41480 A93-41482 A93-41483 * A93-41484 * A93-41485 A93-41493 A93-41497 A93-41503 * A93-41504 * A93-41505	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-035345 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559 US-PATENT-APPL-SN-250552 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-545233 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-671603	p 288 p 353 p 276 p 5 p 4 p 70 p 245 p 4 p 112 p 5	N93-28128 · # N93-29845 · # N93-29174 · # N93-10110 · N93-10109 · N93-14713 · N93-25994 · N93-10109 · N93-18351 · N93-10110 ·	USCG-D-16-92	p 107 p 70 p 338 p 195 p 194	N93-17697 # N93-14554 # N93-31094 # N93-21753 # N93-21537 #	# # #
SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322 SAE PAPER 921323 SAE PAPER 921333 SAE PAPER 921338 SAE PAPER 921344 SAE PAPER 921344 SAE PAPER 921345 SAE PAPER 921346 SAE PAPER 921347	p 304 p 304 p 304 p 304 p 305 p 305 p 305 p 305	A93-41480 A93-41482 A93-41483 * A93-41484 * A93-41485 A93-41493 A93-41497 A93-41503 * A93-41505 A93-41505	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-035345 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559 US-PATENT-APPL-SN-254052 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-651603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-6716182	p 288 p 353 p 276 p 5 p 4 p 70 p 245 p 4 p 112 p 5 p 340	N93-28128 * # N93-29845 * # N93-29174 * # N93-10110 * N93-10109 * N93-14713 * N93-2994 * N93-10109 * N93-18351 * N93-10110 * N93-29610 *	USCG-D-16-92	p 107 p 70 p 338 p 195 p 194 p 195	N93-17697 # N93-14554 # N93-31094 # N93-21753 # N93-21537 # N93-21795 #	# # # #
SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322 SAE PAPER 921323 SAE PAPER 921332 SAE PAPER 921338 SAE PAPER 921344 SAE PAPER 921344 SAE PAPER 921345 SAE PAPER 921347 SAE PAPER 921347 SAE PAPER 921348	p 304 p 304 p 304 p 304 p 304 p 305 p 305 p 305 p 305 p 305	A93-41480 A93-41482 A93-41483 * A93-41484 * A93-41485 A93-41497 A93-41497 A93-41503 * A93-41505 A93-41506 * A93-41506 *	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-035345 US-PATENT-APPL-SN-045142 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559 US-PATENT-APPL-SN-254052 US-PATENT-APPL-SN-545233 US-PATENT-APPL-SN-64603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-6716103 US-PATENT-APPL-SN-716182 US-PATENT-APPL-SN-716182	P 288 P 353 P 276 P 5 P 4 P 70 P 245 P 4 P 112 P 5 P 340 P 53	N93-28128 * # N93-29845 * # N93-29174 * # N93-10110 * N93-10109 * N93-14713 * N93-25994 * N93-10109 * N93-18351 * N93-10110 * N93-10110 * N93-19610 * N93-14708 *	USCG-D-16-92 USCG-R&DC-03/92 UTHSCSA-OPH-93-01 VRI-AFHEL-1-FR-92-1 VRTC-89-0140-VOL-1 VRTC-89-0140-VOL-2	p 107 p 70 p 338 p 195 p 194 p 195	N93-17697 # N93-14554 # N93-31094 # N93-21753 # N93-21537 # N93-21795 #	# # # #
SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322 SAE PAPER 921323 SAE PAPER 921332 SAE PAPER 921338 SAE PAPER 921344 SAE PAPER 921345 SAE PAPER 921345 SAE PAPER 921346 SAE PAPER 921346 SAE PAPER 921347 SAE PAPER 921348 SAE PAPER 921348	p 304 p 304 p 304 p 304 p 304 p 305 p 305 p 305 p 305 p 305 p 305	A93-41480 A93-41482 A93-41483 * A93-41484 * A93-41485 A93-41493 A93-41497 A93-41503 * A93-41504 * A93-41506 * A93-41507 * A93-41507 * A93-41507 *	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-035345 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559 US-PATENT-APPL-SN-254052 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-651603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-6716182	P 288 P 353 P 276 P 5 P 4 P 70 P 245 P 4 P 112 P 5 P 340 P 53 P 351	N93-28128 * # N93-29845 * # N93-29174 * # N93-10110 * N93-10109 * N93-14713 * N93-2994 * N93-10109 * N93-18351 * N93-10110 * N93-29610 *	USCG-D-16-92 USCG-R&DC-03/92 UTHSCSA-OPH-93-01 VRI-AFHEL-1-FR-92-1 VRTC-89-0140-VOL-1 VRTC-89-0140-VOL-2	p 107 p 70 p 338 p 195 p 194 p 195 p 209	N93-17697 # N93-14554 # N93-31094 # N93-21753 # N93-21537 # N93-23369 #	# # # # # # #
SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322 SAE PAPER 921323 SAE PAPER 921333 SAE PAPER 921338 SAE PAPER 921344 SAE PAPER 921344 SAE PAPER 921346 SAE PAPER 921347 SAE PAPER 921347 SAE PAPER 921348 SAE PAPER 921350 SAE PAPER 921351	p 304 p 304 p 304 p 304 p 305	A93-41480 A93-41482 A93-41483 * A93-41484 * A93-41495 A93-41497 A93-41503 * A93-41504 * A93-41505 A93-41505 A93-41506 * A93-41507 * A93-41509 A93-41510 *	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-025345 US-PATENT-APPL-SN-045142 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559 US-PATENT-APPL-SN-254052 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-545233 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-716182 US-PATENT-APPL-SN-716182 US-PATENT-APPL-SN-725111 US-PATENT-APPL-SN-805281	P 288 P 353 P 276 P 5 P 4 P 70 P 245 P 4 P 112 P 5 P 340 P 53 P 351 P 351	N93-28128 * # N93-29845 * # N93-29174 * # N93-10110 * N93-10109 * N93-14713 * N93-25994 * N93-10109 * N93-18351 * N93-10110 * N93-29610 * N93-29610 * N93-19606 *	USCG-D-16-92 USCG-R&DC-03/92 UTHSCSA-OPH-93-01 VRI-AFHEL-1-FR-92-1 VRTC-89-0140-VOL-1 VRTC-89-0140-VOL-2 VTT-PUBS-77	p 107 p 70 p 338 p 195 p 194 p 195 p 209	N93-17697 # N93-14554 # N93-31094 # N93-21753 # N93-21537 # N93-23369 #	# # # # # # # # # # # # # # # # # # #
SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322 SAE PAPER 921323 SAE PAPER 921338 SAE PAPER 921334 SAE PAPER 921344 SAE PAPER 921345 SAE PAPER 921346 SAE PAPER 921347 SAE PAPER 921347 SAE PAPER 921351 SAE PAPER 921351 SAE PAPER 921351 SAE PAPER 921351	p 304 p 304 p 304 p 304 p 305 p 305 p 305 p 305 p 305 p 305 p 306 p 306	A93-41480 A93-41482 A93-41483 * A93-41484 * A93-41485 A93-41497 A93-41503 * A93-41505 A93-41506 * A93-41506 * A93-41507 * A93-41507 * A93-41510 * A93-41510 * A93-41510 *	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-035345 US-PATENT-APPL-SN-045142 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-56233 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-687605 US-PATENT-APPL-SN-716182 US-PATENT-APPL-SN-725111 US-PATENT-APPL-SN-725111 US-PATENT-APPL-SN-805281	p 288 p 353 p 276 p 5 p 4 p 70 p 245 p 4 p 112 p 5 p 340 p 53 p 351 p 351 p 70	N93-28128 * # N93-29845 * # N93-29174 * # N93-10110 * N93-10109 * N93-14713 * N93-10109 * N93-10109 * N93-18351 * N93-10110 * N93-29610 * N93-14708 * N93-29606 N93-29607	USCG-D-16-92 USCG-R&DC-03/92 UTHSCSA-OPH-93-01 VRI-AFHEL-1-FR-92-1 VRTC-89-0140-VOL-1 VRTC-89-0140-VOL-2 VTT-PUBS-77 WHOI-93-07 WL-TR-92-3078	p 107 p 70 p 338 p 195 p 194 p 195 p 209 p 330 p 69	N93-17697 # N93-14554 # N93-31094 # N93-21753 # N93-21537 # N93-23369 # N93-30665 * # N93-14520 #	* * * * * *
SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322 SAE PAPER 921323 SAE PAPER 921332 SAE PAPER 921338 SAE PAPER 921344 SAE PAPER 921345 SAE PAPER 921346 SAE PAPER 921347 SAE PAPER 921348 SAE PAPER 921350 SAE PAPER 921351 SAE PAPER 921352 SAE PAPER 921353	p 304 p 304 p 304 p 304 p 304 p 305 p 305 p 305 p 305 p 305 p 305 p 306 p 306 p 306 p 306	A93-41480 A93-41482 A93-41483 * A93-41484 * A93-41485 A93-41493 A93-41497 A93-41503 * A93-41504 * A93-41506 * A93-41507 * A93-41507 * A93-41510 * A93-41511 * A93-41511 *	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-045142 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559 US-PATENT-APPL-SN-254052 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-5671603 US-PATENT-APPL-SN-6571603 US-PATENT-APPL-SN-687605 US-PATENT-APPL-SN-725111 US-PATENT-APPL-SN-725111 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-815294 US-PATENT-APPL-SN-815294 US-PATENT-APPL-SN-873931	P 288 P 353 P 276 P 5 P 4 P 70 P 245 P 4 P 112 P 53 P 351 P 351 P 351 P 70 P 55	N93-28128 * # N93-29845 * # N93-29174 * # N93-10110 * N93-10109 * N93-14713 * N93-2994 * N93-10109 * N93-18351 * N93-10110 * N93-19510 * N93-14708 * N93-29606 * N93-14708 * N93-29607 N93-14870 *	USCG-D-16-92 USCG-R&DC-03/92 UTHSCSA-OPH-93-01 VRI-AFHEL-1-FR-92-1 VRTC-89-0140-VOL-1 VRTC-89-0140-VOL-2 VTT-PUBS-77 WHOI-93-07	p 107 p 70 p 338 p 195 p 194 p 195 p 209 p 330 p 69	N93-17697 # N93-14554 # N93-31094 # N93-21753 # N93-21537 # N93-23369 # N93-30665 * # N93-14520 #	* * * * * *
SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322 SAE PAPER 921323 SAE PAPER 921338 SAE PAPER 921334 SAE PAPER 921344 SAE PAPER 921345 SAE PAPER 921346 SAE PAPER 921347 SAE PAPER 921347 SAE PAPER 921351 SAE PAPER 921351 SAE PAPER 921351 SAE PAPER 921351	p 304 p 304 p 304 p 304 p 305 p 305 p 305 p 305 p 305 p 305 p 306	A93-41480 A93-41482 A93-41483 * A93-41484 * A93-41485 A93-41493 A93-41497 A93-41505 * A93-41505 A93-41506 * A93-41507 * A93-41509 A93-41510 * A93-41510 * A93-41510 * A93-41510 * A93-41512 A93-41512	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-025345 US-PATENT-APPL-SN-045142 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559 US-PATENT-APPL-SN-50552 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-716182 US-PATENT-APPL-SN-716182 US-PATENT-APPL-SN-725111 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-815294 US-PATENT-APPL-SN-813931 US-PATENT-APPL-SN-873931	P 288 P 353 P 276 P 5 P 4 P 70 P 245 P 340 P 53 P 351 P 351 P 355 P 354	N93-28128 * # N93-29845 * # N93-29174 * # N93-10110 * N93-10109 * N93-125994 * N93-10109 * N93-18351 * N93-10110 * N93-29610 * N93-29610 * N93-29606 * N93-29606 * N93-29607 * N93-15249 #	USCG-D-16-92 USCG-R&DC-03/92 UTHSCSA-OPH-93-01 VRI-AFHEL-1-FR-92-1 VRTC-89-0140-VOL-1 VRTC-89-0140-VOL-2 VTT-PUBS-77 WHOI-93-07 WL-TR-92-3078 WL-TR-92-3095	p 107 p 70 p 338 p 195 p 194 p 195 p 209 p 330 p 69 p 135	N93-17697 # N93-14554 # N93-31094 # N93-21753 # N93-21537 # N93-23369 # N93-30665 * # N93-14520 # N93-1956 #	* * * * * * *
SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322 SAE PAPER 921323 SAE PAPER 921333 SAE PAPER 921338 SAE PAPER 921344 SAE PAPER 921344 SAE PAPER 921346 SAE PAPER 921346 SAE PAPER 921347 SAE PAPER 921350 SAE PAPER 921350 SAE PAPER 921351 SAE PAPER 921351 SAE PAPER 921353 SAE PAPER 921353	p 304 p 304 p 304 p 304 p 304 p 305 p 305 p 305 p 305 p 305 p 306	A93-41480 A93-41482 A93-41483 * A93-41484 * A93-41495 A93-41493 A93-41503 * A93-41504 * A93-41506 * A93-41506 * A93-41507 * A93-41507 * A93-41510 * A93-41510 * A93-41510 * A93-41510 * A93-41511 * A93-41512 * A93-41512 * A93-41513 * A93-41514 *	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-025345 US-PATENT-APPL-SN-045142 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559 US-PATENT-APPL-SN-250552 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-654603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-716182 US-PATENT-APPL-SN-726111 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-815294 US-PATENT-APPL-SN-8193911 US-PATENT-APPL-SN-91942 US-PATENT-APPL-SN-919442 US-PATENT-APPL-SN-931342	P 288 P 353 P 276 P 5 P 4 P 10 P 245 P 112 P 53 P 351 P 351 P 70 P 351 P 351 P 351 P 351 P 351	N93-28128 * # N93-29845 * # N93-29174 * # N93-10110 * N93-10100 * N93-10109 * N93-10109 * N93-18351 * N93-10100 * N93-29610 * N93-29610 * N93-29606 * N93-29606 * N93-29607 * N93-15249 # N93-17049 * # N93-17047 * #	USCG-D-16-92 USCG-R&DC-03/92 UTHSCSA-OPH-93-01 VRI-AFHEL-1-FR-92-1 VRTC-89-0140-VOL-1 VRTC-89-0140-VOL-2 VTT-PUBS-77 WHOI-93-07 WL-TR-92-3078	p 107 p 70 p 338 p 195 p 194 p 195 p 209 p 330 p 69 p 135	N93-17697 # N93-14554 # N93-31094 # N93-21753 # N93-21537 # N93-23369 # N93-30665 * # N93-14520 #	* * * * * * *
SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322 SAE PAPER 921323 SAE PAPER 921333 SAE PAPER 921338 SAE PAPER 921344 SAE PAPER 921345 SAE PAPER 921346 SAE PAPER 921346 SAE PAPER 921347 SAE PAPER 921350 SAE PAPER 921350 SAE PAPER 921351 SAE PAPER 921352 SAE PAPER 921353 SAE PAPER 921354 SAE PAPER 921354 SAE PAPER 921355	p 304 p 304 p 304 p 304 p 305 p 305 p 305 p 305 p 305 p 305 p 306	A93-41480 A93-41482 A93-41483 * A93-41484 * A93-41485 A93-41493 A93-41497 A93-41503 * A93-41504 * A93-41506 * A93-41506 * A93-41507 * A93-41510 * A93-41510 * A93-41511 * A93-41511 * A93-41512 * A93-41514 * A93-41515 *	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-0295345 US-PATENT-APPL-SN-045142 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-7151182 US-PATENT-APPL-SN-715111 US-PATENT-APPL-SN-725111 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-815294 US-PATENT-APPL-SN-819294 US-PATENT-APPL-SN-912953 US-PATENT-APPL-SN-931942 US-PATENT-APPL-SN-931942 US-PATENT-APPL-SN-931942 US-PATENT-APPL-SN-93349	P 288 P 353 P 276 P 5 P 4 P 70 P 245 P 112 P 5 P 340 P 53 P 351 P 70 P 55 P 354 P 9 106 P 114	N93-28128 * # N93-29845 * # N93-29174 * # N93-10100 * N93-10109 * N93-10109 * N93-10109 * N93-10109 * N93-18351 * N93-19100 * N93-19606 * N93-29606 N93-29606 N93-29607 N93-14870 * N93-17049 * # N93-17049 * # N93-17049 * # N93-17049 * #	USCG-D-16-92 USCG-R&DC-03/92 UTHSCSA-OPH-93-01 VRI-AFHEL-1-FR-92-1 VRTC-89-0140-VOL-1 VRTC-89-0140-VOL-2 VTT-PUBS-77 WHOI-93-07 WL-TR-92-3078 WL-TR-92-3095 WRAIR-92-001	p 107 p 70 p 338 p 195 p 194 p 195 p 209 p 330 p 69 p 135 p 52	N93-17697 # N93-14554 # N93-31094 # N93-21753 # N93-21795 # N93-23369 # N93-30665 * # N93-14520 # N93-14520 # N93-14162 #	* * * * * * * * *
SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322 SAE PAPER 921323 SAE PAPER 921332 SAE PAPER 921338 SAE PAPER 921344 SAE PAPER 921345 SAE PAPER 921346 SAE PAPER 921347 SAE PAPER 921347 SAE PAPER 921350 SAE PAPER 921350 SAE PAPER 921351 SAE PAPER 921353 SAE PAPER 921353 SAE PAPER 921353 SAE PAPER 921353 SAE PAPER 921355 SAE PAPER 921355 SAE PAPER 921355 SAE PAPER 921355	p 304 p 304 p 304 p 304 p 305 p 305 p 305 p 305 p 305 p 306 p 307	A93-41480 A93-41482 A93-41483 * A93-41484 * A93-41485 A93-41497 A93-41505 * A93-41505 * A93-41506 * A93-41507 * A93-41509 A93-41510 * A93-41510 * A93-41510 * A93-41511 * A93-41512 * A93-41513 * A93-41515 * A93-41515 * A93-41516 *	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-035345 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559 US-PATENT-APPL-SN-254052 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-671605 US-PATENT-APPL-SN-725111 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-815294 US-PATENT-APPL-SN-815294 US-PATENT-APPL-SN-8193931 US-PATENT-APPL-SN-902166 US-PATENT-APPL-SN-902165 US-PATENT-APPL-SN-9031942 US-PATENT-APPL-SN-931942 US-PATENT-APPL-SN-93349 US-PATENT-APPL-SN-93349	P 288 P 353 P 276 P 5 P 4 P 70 P 245 P 112 P 53 P 351 P 351 P 70 P 55 P 354 P 80 P 9 114 P 106	N93-28128 * # N93-29845 * # N93-29174 * # N93-10110 * N93-10109 * N93-14713 * N93-10109 * N93-18351 * N93-10100 * N93-18351 * N93-14708 * N93-29606 N93-29607 N93-15249 # N93-15249 # N93-17047 * # N93-17045 * # N93-17045 * #	USCG-D-16-92 USCG-R&DC-03/92 UTHSCSA-OPH-93-01 VRI-AFHEL-1-FR-92-1 VRTC-89-0140-VOL-1 VRTC-89-0140-VOL-2 VTT-PUBS-77 WHOI-93-07 WL-TR-92-3078 WL-TR-92-3095	p 107 p 70 p 338 p 195 p 194 p 195 p 209 p 330 p 69 p 135 p 52	N93-17697 # N93-14554 # N93-31094 # N93-21753 # N93-21795 # N93-23369 # N93-30665 * # N93-14520 # N93-14520 # N93-14162 #	* * * * * * * * *
SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322 SAE PAPER 921323 SAE PAPER 921333 SAE PAPER 921338 SAE PAPER 921334 SAE PAPER 921344 SAE PAPER 921345 SAE PAPER 921346 SAE PAPER 921346 SAE PAPER 921347 SAE PAPER 921350 SAE PAPER 921350 SAE PAPER 921351 SAE PAPER 921352 SAE PAPER 921353 SAE PAPER 921354 SAE PAPER 921355	p 304 p 304 p 304 p 304 p 304 p 305 p 305 p 305 p 305 p 306 p 307 p 307	A93-41480 A93-41482 A93-41483 * A93-41484 * A93-41495 A93-41493 A93-41503 * A93-41504 * A93-41506 * A93-41507 * A93-41507 * A93-41510 * A93-41510 * A93-41510 * A93-41510 * A93-41511 * A93-41512 * A93-41513 * A93-41514 * A93-41515 * A93-41516 * A93-41516 * A93-41517 *	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-035345 US-PATENT-APPL-SN-045142 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559 US-PATENT-APPL-SN-250552 US-PATENT-APPL-SN-505622 US-PATENT-APPL-SN-565233 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-716182 US-PATENT-APPL-SN-716182 US-PATENT-APPL-SN-725111 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-815294 US-PATENT-APPL-SN-815294 US-PATENT-APPL-SN-913942 US-PATENT-APPL-SN-913942 US-PATENT-APPL-SN-933349 US-PATENT-APPL-SN-933349 US-PATENT-APPL-SN-933349 US-PATENT-APPL-SN-930303 US-PATENT-APPL-SN-970203	P 288 P 353 P 276 P 5 P 4 P 70 P 245 P 340 P 53 P 351 P 351 P 351 P 351 P 354 P 82 P 106 P 114 P 106 P 106	N93-28128 * # N93-29845 * # N93-29174 * # N93-10110 * N93-10109 * N93-125994 * N93-10109 * N93-18351 * N93-10100 * N93-29610 * N93-29610 * N93-29606 * N93-29606 * N93-29607 * N93-15249 # N93-17049 * # N93-17049 * # N93-17049 * # N93-17045 * # N93-17042 * #	USCG-D-16-92 USCG-R&DC-03/92 UTHSCSA-OPH-93-01 VRI-AFHEL-1-FR-92-1 VRTC-89-0140-VOL-1 VRTC-89-0140-VOL-2 VTT-PUBS-77 WHOI-93-07 WL-TR-92-3078 WL-TR-92-3095 WRAIR-92-001	p 107 p 70 p 338 p 195 p 194 p 195 p 209 p 330 p 69 p 135 p 52	N93-17697 # N93-14554 # N93-31094 # N93-21753 # N93-21795 # N93-23369 # N93-30665 * # N93-14520 # N93-14520 # N93-14162 #	* * * * * * * * *
SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322 SAE PAPER 921323 SAE PAPER 921333 SAE PAPER 921338 SAE PAPER 921334 SAE PAPER 921345 SAE PAPER 921345 SAE PAPER 921347 SAE PAPER 921347 SAE PAPER 921347 SAE PAPER 921350 SAE PAPER 921351 SAE PAPER 921351 SAE PAPER 921352 SAE PAPER 921353 SAE PAPER 921354 SAE PAPER 921355 SAE PAPER 921357 SAE PAPER 921357 SAE PAPER 921357	p 304 p 304 p 304 p 304 p 305 p 305 p 305 p 305 p 305 p 306 p 307 p 307 p 307	A93-41480 A93-41482 A93-41483 * A93-41484 * A93-41485 A93-41497 A93-41503 * A93-41504 * A93-41506 * A93-41507 * A93-41509 * A93-41510 * A93-41510 * A93-41511 * A93-41513 * A93-41514 * A93-41515 * A93-41516 * A93-41517 * A93-41517 * A93-41518	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-029345 US-PATENT-APPL-SN-045142 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559 US-PATENT-APPL-SN-50592 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-569603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-715118 US-PATENT-APPL-SN-715111 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-815294 US-PATENT-APPL-SN-819294 US-PATENT-APPL-SN-912953 US-PATENT-APPL-SN-91942 US-PATENT-APPL-SN-91942 US-PATENT-APPL-SN-963349 US-PATENT-APPL-SN-970203 US-PATENT-APPL-SN-970204 US-PATENT-APPL-SN-970204	P 288 P 353 P 276 P 5 P 4 P 70 P 245 P 112 P 5 P 351 P 351 P 351 P 355 P 354 P 106 P 106 P 106 P 106	N93-28128 * # N93-29845 * # N93-29174 * # N93-10100 * N93-10100 * N93-10109 * N93-10109 * N93-10109 * N93-18351 * N93-10100 * N93-14708 * N93-29606 N93-29606 N93-29606 N93-29607 N93-14870 * N93-17049 * # N93-17045 * # N93-17045 * # N93-17045 * # N93-17048 * #	USCG-D-16-92 USCG-R&DC-03/92 UTHSCSA-OPH-93-01 VRI-AFHEL-1-FR-92-1 VRTC-89-0140-VOL-1 VRTC-89-0140-VOL-2 VTT-PUBS-77 WHOI-93-07 WL-TR-92-3078 WL-TR-92-3095 WRAIR-92-001	p 107 p 70 p 338 p 195 p 194 p 195 p 209 p 330 p 69 p 135 p 52	N93-17697 # N93-14554 # N93-31094 # N93-21753 # N93-21795 # N93-23369 # N93-30665 * # N93-14520 # N93-14520 # N93-14162 #	* * * * * * * * *
SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322 SAE PAPER 921323 SAE PAPER 921333 SAE PAPER 921338 SAE PAPER 921344 SAE PAPER 921345 SAE PAPER 921346 SAE PAPER 921347 SAE PAPER 921347 SAE PAPER 921350 SAE PAPER 921350 SAE PAPER 921351 SAE PAPER 921352 SAE PAPER 921353 SAE PAPER 921354 SAE PAPER 921355 SAE PAPER 921355 SAE PAPER 921355 SAE PAPER 921355 SAE PAPER 921357 SAE PAPER 921358 SAE PAPER 921358 SAE PAPER 921358	p 304 p 304 p 304 p 304 p 305 p 305 p 305 p 305 p 306 p 307 p 307 p 307	A93-41480 A93-41482 A93-41483 A93-41484 A93-41485 A93-41493 A93-41504 A93-41505 A93-41506 A93-41507 A93-41509 A93-41510 A93-41510 A93-41510 A93-41510 A93-41517 A93-41516 A93-41517 A93-41518 A93-41518 A93-41518	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-025345 US-PATENT-APPL-SN-045142 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-567603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-687605 US-PATENT-APPL-SN-716182 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-809211 US-PATENT-APPL-SN-902166 US-PATENT-APPL-SN-9031942 US-PATENT-APPL-SN-937942 US-PATENT-APPL-SN-937942 US-PATENT-APPL-SN-937942 US-PATENT-APPL-SN-937942 US-PATENT-APPL-SN-970203 US-PATENT-APPL-SN-970204 US-PATENT-APPL-SN-970204 US-PATENT-APPL-SN-971116 US-PATENT-APPL-SN-971116	P 288 P 353 P 276 P 5 P 4 P 70 P 245 P 112 P 5 P 351 P 351 P 351 P 355 P 354 P 82 P 114 P 106 P 106 P 96	N93-28128 * # N93-29845 * # N93-29174 * # N93-10100 * N93-10109 * N93-10109 * N93-10109 * N93-10109 * N93-10100 * N93-10100 * N93-29610 * N93-29610 * N93-29606 * N93-29607 * N93-15249 * N93-17049 * #	USCG-D-16-92 USCG-R&DC-03/92 UTHSCSA-OPH-93-01 VRI-AFHEL-1-FR-92-1 VRTC-89-0140-VOL-1 VRTC-89-0140-VOL-2 VTT-PUBS-77 WHOI-93-07 WL-TR-92-3078 WL-TR-92-3095 WRAIR-92-001	p 107 p 70 p 338 p 195 p 194 p 195 p 209 p 330 p 69 p 135 p 52	N93-17697 # N93-14554 # N93-31094 # N93-21753 # N93-21795 # N93-23369 # N93-30665 * # N93-14520 # N93-14520 # N93-14162 #	* * * * * * * * *
SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322 SAE PAPER 921323 SAE PAPER 921333 SAE PAPER 921338 SAE PAPER 921334 SAE PAPER 921345 SAE PAPER 921345 SAE PAPER 921346 SAE PAPER 921346 SAE PAPER 921347 SAE PAPER 921350 SAE PAPER 921350 SAE PAPER 921351 SAE PAPER 921353 SAE PAPER 921354 SAE PAPER 921355 SAE PAPER 921357 SAE PAPER 921357 SAE PAPER 921359 SAE PAPER 921359	p 304 p 304 p 304 p 304 p 304 p 305 p 305 p 305 p 305 p 306 p 306 p 306 p 306 p 306 p 307 p 307 p 307	A93-41480 A93-41482 A93-41483 * A93-41484 * A93-41485 A93-41493 A93-41503 * A93-41504 * A93-41505 A93-41506 * A93-41507 * A93-41510 * A93-41510 * A93-41510 * A93-41510 * A93-41511 * A93-41512 * A93-41514 * A93-41515 * A93-41516 * A93-41516 * A93-41517 * A93-41518 * A93-41518 * A93-41519 * A93-41519 * A93-41520 *	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-029345 US-PATENT-APPL-SN-045142 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559 US-PATENT-APPL-SN-50592 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-569603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-715118 US-PATENT-APPL-SN-715111 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-815294 US-PATENT-APPL-SN-819294 US-PATENT-APPL-SN-912953 US-PATENT-APPL-SN-91942 US-PATENT-APPL-SN-91942 US-PATENT-APPL-SN-963349 US-PATENT-APPL-SN-970203 US-PATENT-APPL-SN-970204 US-PATENT-APPL-SN-970204	P 288 P 353 P 276 P 5 P 4 P 70 P 245 P 112 P 5 P 351 P 351 P 351 P 355 P 354 P 82 P 114 P 106 P 106 P 96	N93-28128 * # N93-29845 * # N93-29174 * # N93-10100 * N93-10109 * N93-10109 * N93-10109 * N93-10109 * N93-10100 * N93-10100 * N93-29610 * N93-29610 * N93-29606 * N93-29607 * N93-15249 * N93-17049 * #	USCG-D-16-92 USCG-R&DC-03/92 UTHSCSA-OPH-93-01 VRI-AFHEL-1-FR-92-1 VRTC-89-0140-VOL-1 VRTC-89-0140-VOL-2 VTT-PUBS-77 WHOI-93-07 WL-TR-92-3078 WL-TR-92-3095 WRAIR-92-001	p 107 p 70 p 338 p 195 p 194 p 195 p 209 p 330 p 69 p 135 p 52	N93-17697 # N93-14554 # N93-31094 # N93-21753 # N93-21795 # N93-23369 # N93-30665 * # N93-14520 # N93-14520 # N93-14162 #	* * * * * * * * *
SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322 SAE PAPER 921323 SAE PAPER 921333 SAE PAPER 921338 SAE PAPER 921334 SAE PAPER 921344 SAE PAPER 921345 SAE PAPER 921347 SAE PAPER 921347 SAE PAPER 921347 SAE PAPER 921350 SAE PAPER 921351 SAE PAPER 921352 SAE PAPER 921355 SAE PAPER 921357 SAE PAPER 921358 SAE PAPER 921358 SAE PAPER 921358 SAE PAPER 921360 SAE PAPER 921361	p 304 p 304 p 304 p 304 p 305 p 305 p 305 p 305 p 306 p 307 p 307 p 307 p 307	A93-41480 A93-41482 A93-41483 A93-41484 A93-41485 A93-41497 A93-41503 A93-41504 A93-41506 A93-41507 A93-41500 A93-41510 A93-41510 A93-41511 A93-41512 A93-41513 A93-41516 A93-41516 A93-41517 A93-41518 A93-41517 A93-41518 A93-41518 A93-41520 A93-41520 A93-41520	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-025345 US-PATENT-APPL-SN-045142 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559 US-PATENT-APPL-SN-50552 US-PATENT-APPL-SN-50562 US-PATENT-APPL-SN-561603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-715111 US-PATENT-APPL-SN-715112 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-815294 US-PATENT-APPL-SN-815294 US-PATENT-APPL-SN-81939142 US-PATENT-APPL-SN-919953 US-PATENT-APPL-SN-919953 US-PATENT-APPL-SN-919953 US-PATENT-APPL-SN-970203 US-PATENT-APPL-SN-970204 US-PATENT-APPL-SN-970204 US-PATENT-APPL-SN-971116 US-PATENT-APPL-SN-971116 US-PATENT-APPL-SN-986631 US-PATENT-APPL-SN-986631	P 288 P 353 P 576 P 5 P 470 P 245 P 112 P 5 P 340 P 55 P 351 P 351 P 70 P 106 P 106 P 106 P 106 P 106 P 114	N93-28128 * # N93-29845 * # N93-29174 * # N93-10100 * * N93-10100 * * N93-10109 * * N93-18351 * * N93-18351 * * N93-19606 * * N93-29607 * * N93-14870 * * N93-19606 * # N93-17049 * # N93-17049 * # N93-17045 * # N93-17058 * # N93-17058 * # N93-17058 * #	USCG-D-16-92 USCG-R&DC-03/92 UTHSCSA-OPH-93-01 VRI-AFHEL-1-FR-92-1 VRTC-89-0140-VOL-1 VRTC-89-0140-VOL-2 VTT-PUBS-77 WHOI-93-07 WL-TR-92-3078 WL-TR-92-3095 WRAIR-92-001	p 107 p 70 p 338 p 195 p 194 p 195 p 209 p 330 p 69 p 135 p 52	N93-17697 # N93-14554 # N93-31094 # N93-21753 # N93-21795 # N93-23369 # N93-30665 * # N93-14520 # N93-14520 # N93-14162 #	* * * * * * * * *
SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322 SAE PAPER 921323 SAE PAPER 921333 SAE PAPER 921338 SAE PAPER 921334 SAE PAPER 921345 SAE PAPER 921346 SAE PAPER 921347 SAE PAPER 921347 SAE PAPER 921350 SAE PAPER 921351 SAE PAPER 921351 SAE PAPER 921352 SAE PAPER 921353 SAE PAPER 921353 SAE PAPER 921355 SAE PAPER 921355 SAE PAPER 921355 SAE PAPER 921355 SAE PAPER 921356 SAE PAPER 921357 SAE PAPER 921358 SAE PAPER 921359 SAE PAPER 921359 SAE PAPER 921359 SAE PAPER 921360 SAE PAPER 921361 SAE PAPER 921361	p 304 p 304 p 304 p 304 p 305 p 305 p 305 p 305 p 305 p 306 p 306 p 306 p 306 p 306 p 306 p 307 p 307 p 307 p 307 p 307 p 307	A93-41480 A93-41482 A93-41483 A93-41484 A93-41485 A93-41493 A93-41503 A93-41504 A93-41506 A93-41507 A93-41509 A93-41510 A93-41510 A93-41511 A93-41515 A93-41516 A93-41516 A93-41516 A93-41516 A93-41518 A93-41521 A93-41521 A93-41521 A93-41534	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-025345 US-PATENT-APPL-SN-045142 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559 US-PATENT-APPL-SN-25052 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-687605 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-902166 US-PATENT-APPL-SN-902166 US-PATENT-APPL-SN-912953 US-PATENT-APPL-SN-931942 US-PATENT-APPL-SN-937925 US-PATENT-APPL-SN-930349 US-PATENT-APPL-SN-970200 US-PATENT-APPL-SN-970200 US-PATENT-APPL-SN-970200 US-PATENT-APPL-SN-971116 US-PATENT-APPL-SN-971116 US-PATENT-APPL-SN-986631 US-PATENT-APPL-SN-986663	P 288 P 353 P P 5 P 4 P 70 P 245 P 9 112 P 351 P 351 P 351 P 351 P 106 P 107 P 107 P 108 P	N93-28128 * # N93-29845 * # N93-29174 * # N93-10100 * N93-10109 * N93-125994 * N93-10109 * N93-18351 * N93-10100 * N93-18351 * N93-10110 * N93-29610 * N93-29606 * N93-29607 * N93-15249 # N93-17049 * # N93-17045 * # N93-17045 * # N93-17045 * # N93-17088 * # N93-17088 * # N93-17088 * # N93-17058 * # N93-19037 * #	USCG-D-16-92 USCG-R&DC-03/92 UTHSCSA-OPH-93-01 VRI-AFHEL-1-FR-92-1 VRTC-89-0140-VOL-1 VRTC-89-0140-VOL-2 VTT-PUBS-77 WHOI-93-07 WL-TR-92-3078 WL-TR-92-3095 WRAIR-92-001	p 107 p 70 p 338 p 195 p 194 p 195 p 209 p 330 p 69 p 135 p 52	N93-17697 # N93-14554 # N93-31094 # N93-21753 # N93-21795 # N93-23369 # N93-30665 * # N93-14520 # N93-14520 # N93-14162 #	* * * * * * * * *
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SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322 SAE PAPER 921323 SAE PAPER 921333 SAE PAPER 921338 SAE PAPER 921334 SAE PAPER 921344 SAE PAPER 921345 SAE PAPER 921346 SAE PAPER 921347 SAE PAPER 921347 SAE PAPER 921350 SAE PAPER 921351 SAE PAPER 921352 SAE PAPER 921353 SAE PAPER 921354 SAE PAPER 921355 SAE PAPER 921356 SAE PAPER 921357 SAE PAPER 921357 SAE PAPER 921359 SAE PAPER 921360 SAE PAPER 921360 SAE PAPER 921361 SAE PAPER 921361 SAE PAPER 921361 SAE PAPER 921363 SAE PAPER 921361 SAE PAPER 921376 SAE PAPER 921376 SAE PAPER 921381	p 304 p 304 p 304 p 304 p 305 p 305 p 305 p 305 p 306 p 307 p 307 p 307 p 307 p 307 p 307	A93-41480 A93-41482 A93-41483 A93-41484 A93-41485 A93-41493 A93-41503 A93-41504 A93-41506 A93-41507 A93-41500 A93-41510 A93-41510 A93-41511 A93-41516 A93-41516 A93-41516 A93-41517 A93-41518 A93-41518 A93-41518 A93-41520 A93-41520 A93-41520 A93-41521 A93-41520 A93-41520 A93-41520 A93-41520 A93-41520 A93-41539 A93-41539 A93-41539 A93-41539	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-025345 US-PATENT-APPL-SN-045142 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559 US-PATENT-APPL-SN-50592 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-565233 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-715182 US-PATENT-APPL-SN-715181 US-PATENT-APPL-SN-725111 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-89391 US-PATENT-APPL-SN-893931 US-PATENT-APPL-SN-902166 US-PATENT-APPL-SN-91942 US-PATENT-APPL-SN-902166 US-PATENT-APPL-SN-971116 US-PATENT-APPL-SN-963349 US-PATENT-APPL-SN-970203 US-PATENT-APPL-SN-970204 US-PATENT-APPL-SN-970204 US-PATENT-APPL-SN-970204 US-PATENT-APPL-SN-970204 US-PATENT-APPL-SN-971116 US-PATENT-APPL-SN-971116 US-PATENT-APPL-SN-996263 US-PATENT-APPL-SN-996263 US-PATENT-CLASS-2-424 US-PATENT-CLASS-2-10-140 US-PATENT-CLASS-2-10-140	P 288 P 353 P P 5 P 4 P P 70 P 245 P 9 112 P 55 P 354 P 9 155 P 354 P 106 P 106 P 106 P 106 P 106 P 107 P 107 P 108 P 10	N93-28128 * # N93-29845 * # N93-29174 * # N93-10100 * # N93-10100 * 103-10100 * 103-10100 * 103-10100 * 103-10100 * 103-10100 * 103-29610 * 103-29606 * 103-29607 * 103-15249 * 103-17049	USCG-D-16-92 USCG-R&DC-03/92 UTHSCSA-OPH-93-01 VRI-AFHEL-1-FR-92-1 VRTC-89-0140-VOL-1 VRTC-89-0140-VOL-2 VTT-PUBS-77 WHOI-93-07 WL-TR-92-3078 WL-TR-92-3095 WRAIR-92-001	p 107 p 70 p 338 p 195 p 194 p 195 p 209 p 330 p 69 p 135 p 52	N93-17697 # N93-14554 # N93-31094 # N93-21753 # N93-21795 # N93-23369 # N93-30665 * # N93-14520 # N93-14520 # N93-14162 #	* * * * * * * * *
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SAE PAPER 921320 SAE PAPER 921321 SAE PAPER 921322 SAE PAPER 921323 SAE PAPER 921333 SAE PAPER 921338 SAE PAPER 921338 SAE PAPER 921344 SAE PAPER 921345 SAE PAPER 921346 SAE PAPER 921347 SAE PAPER 921347 SAE PAPER 921347 SAE PAPER 921350 SAE PAPER 921351 SAE PAPER 921351 SAE PAPER 921351 SAE PAPER 921355 SAE PAPER 921356 SAE PAPER 921356 SAE PAPER 921357 SAE PAPER 921357 SAE PAPER 921359 SAE PAPER 921360 SAE PAPER 921360 SAE PAPER 921361 SAE PAPER 921361 SAE PAPER 921361 SAE PAPER 921376 SAE PAPER 921386 SAE PAPER 921388 SAE PAPER 921388	p 304 p 304 p 304 p 304 p 305 p 305 p 305 p 305 p 306 p 306 p 306 p 306 p 306 p 306 p 307 p 307 p 307 p 307 p 307 p 307 p 308	A93-41480 A93-41482 A93-41483 A93-41484 A93-41485 A93-41493 A93-41497 A93-41504 A93-41505 A93-41506 A93-41507 A93-41501 A93-41501 A93-41510 A93-41510 A93-41511 A93-41516 A93-41516 A93-41517 A93-41518 A93-41518 A93-41518 A93-41519 A93-41520 A93-41520 A93-41520 A93-41541 A93-41540 A93-41541 A93-41545 A93-41545 A93-41545 A93-41546 A93-41546 A93-41546 A93-41547 A93-41548	US-PATENT-APPL-SN-029808 US-PATENT-APPL-SN-025345 US-PATENT-APPL-SN-045142 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213558 US-PATENT-APPL-SN-213559 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-501908 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-671603 US-PATENT-APPL-SN-687605 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-805281 US-PATENT-APPL-SN-902166 US-PATENT-APPL-SN-90311 US-PATENT-APPL-SN-912953 US-PATENT-APPL-SN-937325 US-PATENT-APPL-SN-937325 US-PATENT-APPL-SN-937325 US-PATENT-APPL-SN-970203 US-PATENT-APPL-SN-970203 US-PATENT-APPL-SN-970204 US-PATENT-APPL-SN-970116 US-PATENT-APPL-SN-970204 US-PATENT-APPL-SN-996663 US-PATENT-APPL-SN-996663 US-PATENT-CLASS-210-190 US-PATENT-CLASS-210-190 US-PATENT-CLASS-210-670 US-PATENT-CLASS-210-753 US-PATENT-CLASS-210-753	P 288 P 353 P 5 P 4 P 70 P 245 P 340 P 351 P 351 P 353 P 351 P 355 P 106 P 106 P 106 P 106 P 107 P 112 P 112	N93-28128 * # N93-29845 * # N93-29174 * # N93-10110 * N93-10109 * N93-10109 * N93-10109 * N93-10109 * N93-129610 * N93-29610 * N93-29610 * N93-29606 * N93-29606 * N93-29607 * N93-17049 * # N93-18351 *	USCG-D-16-92 USCG-R&DC-03/92 UTHSCSA-OPH-93-01 VRI-AFHEL-1-FR-92-1 VRTC-89-0140-VOL-1 VRTC-89-0140-VOL-2 VTT-PUBS-77 WHOI-93-07 WL-TR-92-3078 WL-TR-92-3095 WRAIR-92-001	p 107 p 70 p 338 p 195 p 194 p 195 p 209 p 330 p 69 p 135 p 52	N93-17697 # N93-14554 # N93-31094 # N93-21753 # N93-21795 # N93-23369 # N93-30665 * # N93-14520 # N93-14520 # N93-14162 #	* * * * * * * * *

ACCESSION NUMBER INDEX

AEROSPACE MEDICINE AND BIOLOGY / A Continuing Bibliography 1993 Cumulative Index

January 1994

Typical Accession Number Index Listing



Listings in this index are arranged alphanumerically by accession number. The page number indicates the page on which the citation is located. The accession number denotes the number by which the citation is identified. An asterisk (*) indicates that the item is a NASA report. A pound sign (#) indicates that the item is available on microfiche.

	a report. A pound si available on microfi		5
A93-10124	p 7	A93-13534	p 29
A93-10125	p 1	A93-13535	p 29
A93-10326	p 7	A93-13536	р3
A93-10327	p 7	A93-13537	p 29
A93-10329	p 7	A93-13538	p 3
A93-10330	p 7	A93-13539	p 29
A93-10331	p8	A93-13540 A93-13541	p 3
A93-10332	p 8	A93-13542	р 24 р 3
A93-10333 *	p 8	A93-13542	p 3
A93-10334	p 23	A93-13544	p 3
A93-10335	p 8	A93-13545	p 3
A93-10336	p 8	A93-13704	p 10
A93-10337	p 9	A93-13705	p 10
A93-10338	p 9	A93-13706	p 10
A93-10636	p 1	A93-13707	p 11
A93-11150	p 1	A93-13708	p 11
A93-11198	p 1	A93-13709	ρ4
A93-11199 A93-11201	p 1	A93-13710	p 11
A93-11201	p 27 p 27	A93-13711	p 11
A93-11202	p 27	A93-13712	p 4
A93-11252 #	p 24	A93-13713	p 11
A93-11253 #	p 24	A93-13714	p 11
A93-11254 #		A93-13715	p 11
A93-11286	p 9	A93-13716	p 11
A93-11287	P 27	A93-13717 A93-13718	р 4 р 30
A93-11675	p 9	A93-13719	р 30 р 12
A93-11690	p 9	A93-13719	р 12 р 4
A93-11691	p 1	A93-13721	p 30
A93-11847	p 35	A93-13722	p 4
A93-12077 *	p 27	A93-13723	p 30
A93-12078	ρ 28	A93-13774 *	p 43
A93-12222	p 28	A93-13817 *	p 60
A93-12860	p 2	A93-13907	p 60
A93-12861	p 2	A93-13935	p 43 °
A93-12862	p 9	A93-14097	p 55
A93-12863	p 2	A93-14098 *	p 55
A93-12864 A93-12969	p 2	A93-14119	p 55
A93-12909 *#	p 10 p 28	A93-14121 *	p 37
A93-13331 * #	p 28	A93-14123	p 43
A93-13350 #	p 28	A93-14222	p 60
A93-13357 * #	p 28	A93-14314	p 60
A93-13408	p 29	A93-14319	p 61
A93-13410	p 24	A93-14377 A93-14378	p 61
A93-13411	p 24	A93-14413	p 61
A93-13413	p 29	A93-14413 A93-14727	p 61 p 61
A93-13414	p 29	A93-14727	p 44
A93-13416	p 29	A93-14969	p 44
A93-13528	p 2	A93-14970 *	p 37
A93-13529	p 10	A93-14971	р 37 р 44
A93-13530	p 2	A93-14971	p 44 n 44
102 12521			

A93-14972

A93-14973

A93-14974

A93-13531

A93-13532

A93-13533

p 10

p 2 p 10 p 44

p 37

p 37

A93-17547

A93-17548

p 86

p 86

	14975 15057		р 44 р 61
	15165		p 44
	15166		p 45
	15167		p 45
	15168		p 45
	15172 15173		р 45 р 45
	15174		p 45
A93-	15175		p 45
	15419 15526		p 61 p 37
	15527		p 38
	15528		p 46
	15529 15530		p 56 p 46
	15575		p 46
	15583	•	p 62
	15588 15661		р 62 р 56
	15662		p 56
	15663		p 56
	15664 15665		p 56 p 62
A93-	16001		p 38
	16074		p 46
	16075 16151		р 46 р 46
	16152		p 56
	16153	•	p 46
	16154 16155		р 47 р 47
	16156		p 47
	16157		p 47
	16158 16159		p 47 p 56
	16160	•	p 48
	16161 16162		p 48
	16164		p 57 p 48
A93-	16254		p 48
	16373		p 57
	16481 16544		p 38 p 38
A93-	16748		p 38
	16749 16750		р 38 р 39
	17071		p 57
	17072		p 62
	17075 17426		p 62 p 39
	17428		p 48
	17429		p 39
	17430 17431		p 48 p 57
	17432	•	p 62
	17433		p 62
	17434 17435		р 39 р 71
A93-	17439		p 48
400	17440		p 49
A93-	17442		p 49 p 49
A93-	17446		p 39
	17527 17528		p 83 p 83
	17528		p 83 p 83
A93-	17530	•	p 84
	17531 17532	•	p 84 p 84
	17533		р 84 р 84
A93-	17534	•	p 84
	17535 17537		р 84 р 85
	17538		p 85
A93-	17539		p 85
	17540 17541		ρ85 ρ73
	17542	•	р 73 р 85
A93-	17543		p 85
403.	17544	-	n 86

A93-17549	p 86	A93-18569 *	p 101
A93-17550 *		A93-18710 *	p 101
A93-17551 *	p 87	A93-18769	p 98
A93-17552 *	p 87	A93-18773	p 98
A93-17553 *	p 87	A93-18775	p 98
A93-17673 *		A93-19773 A93-19090	
A93-17800 *			p 101
A93-17822	p 73	A93-19104	p 101
A93-17823	p 73	A93-19256	p 102
A93-17824	p 108	A93-19984	p 102
A93-17825	p 73	A93-19985	p 102
A93-17897	p 87	A93-19986 *	p 102
A93-17971	p 97	A93-19987 *	p 102
A93-17974 1	p 97	A93-19988	p 102
A93-17975 1	p 87	A93-19989	p 103
A93-17976 *		A93-19990	p 103
A93-17977 *	p 109	A93-19991	p 91
A93-17979 1	p 109	A93-19992	p 91
A93-17980 *	p 109	A93-19993	.p 91
A93-17981	p 109	A93-19994	p 77
A93-17982	p 109	A93-19995	p 91
A93-17983	p 110	A93-19996	p 92
A93-17984 *	p 110	A93-19997	p 92
A93-17986	p 110	A93-19998	p 103
A93-17987	p 110	A93-19999	p 103
A93-18001	p 73	A93-20015	p 103
A93-18002	p 73	A93-20026	p 92
A93-18003	p 74	A93-20027	p 77
A93-18005 *	p 74	A93-20028	p 92
A93-18006	p 74	A93-20029	p 92
A93-18007 *	p 74	A93-20030	p 78
A93-18008	p 74	A93-20031	p 92
A93-18009	p 74	A93-20032	p 78
A93-18010	p 74	A93-20033	p 78
A93-18033	p 87	A93-20034	p 78
A93-18034	p 87	A93-20035	p 93
A93-18035	p 88	A93-20036	p 78
A93-18036	p 88	A93-20037	p 79
A93-18037	p 88	A93-20038 A93-20039 *	p 79
A93-18038	p 88	A93-20039	p 93
A93-18039	p 75	A93-20275 *	p 98
A93-18040	p 88	A93-20651 * A93-20652 *	p 79
A93-18041	p 89	A93-20653	p 79 p 93
A93-18042	p 89	A93-20654 *	p 93
A93-18043	p 89	A93-20655	p 93
A93-18044	p 89	A93-20656 *	p 93
A93-18045	p 89	A93-20657	p 94
A93-18046	p 97	A93-20658 *	p 94
A93-18073 *	p 75	A93-20659 *	p 94
A93-18286	p 75	A93-20660 *	p 79
A93-18287	p 75	A93-20661	p 79
A93-18288	p 89	A93-20662	p 79
A93-18289	p 75	A93-20663	p 80
A93-18290	p 75	A93-20664	p 94
A93-18291	p 89	A93-20665	p 80
A93-18292	p 90	A93-20672	p 80
A93-18293	р 76 - 76	A93-20692 *	ρ 99
A93-18294	p 76	A93-20700 *	p 104
A93-18295 A93-18296	р 76 р 76	A93-20779	p 104
A93-18297	р 76 р 76	A93-20898	p 94
A93-18298	p 76	A93-20899	p 80
A93-18299	р 76 р 76	A93-21683	p 115
	p 77	A93-21684	p 111
A93-18300 A93-18301	p 77	A93-21685	p 115
A93-18302	p 77	A93-21686	p 115
A93-18347	p 100	A93-21687	p 116
A93-18406	p 90	A93-21847 °	p 149
A93-18407	p 77	A93-21870	p 129
A93-18407	p 90	A93-21901	p 111
A93-18409	p 100	A93-21906	p 135
A93-18410	p 90	A93-22053	p 111
A93-18411	p 90	A93-22827	p 135
A93-18412	p 98	A93-22916	p 135
A93-18413	p 98	A93-23074	p 111
A93-18414	p 98	A93-23075	p 111
A93-18415	p 90	A93-23150	p 129
A93-18416	р 91	A93-23151	p 116
A93-18417	p 91	A93-23152	p 112
A93-18418	· p 101	A93-23518 *	p 135
A93-18419	p 77	A93-23519 *	p 136
		A93-23693	p 129
A93-18530	p 101	A93-23846 *	p 136
A93-18531	p 101	A93-24037 *	р 116
			G-1

21000							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
A93-24039	p 116	A93-27157 *	p 187	A93-28720	p 166	A93-30286	p 213	A93-33450	p 233
A93-24040	p 129	A93-27158	p 176	A93-28721	p 167	A93-30287	p 230	A93-34012 *#	p 261
A93-24041	p 116	A93-27160 *	p 187	A93-28722	p 155	A93-30435	p 213	A93-34013 *#	p 262
A93-24042	p 117	A93-27163	p 188	A93-28723 *	p 167	A93-30436	p 213	A93-34518	p 239
A93-24043	p 117		•	A93-28724	p 180	A93-30437	p 199	A93-34581 *	p 239
A93-24044	p 117	A93-27167	p 188	A93-28725 *	p 155	A93-30437	p 199	A93-34593	p 256
A93-24045	p 117	A93-27169 A93-27170 *	p 176 p 188	A93-28726 *	p 155	A93-30439	p 230	A93-34858	p 239
A93-24046	p 136	A93-27170 A93-27171	p 177	A93-28727	p 155	A93-30440	p 222	A93-34985	p 262
A93-24047 °	p 112	A93-27172 *	p 160	A93-28728	p 155	A93-30441	p 199	A93-34986	p 262
A93-24049	p 117			A93-28729	p 167	A93-30441	p 199	A93-35099 *	p 256
A93-24050	p 136	A93-27173	p 177	A93-28730	p 156	A93-30442 A93-30443	p 223	A93-35207	p 247
A93-24490 #	p 136	A93-27174	p 177	A93-28731	p 181	A93-30443 A93-30444		A93-35208	p 247
A93-24873 #	p 136	A93-27175 *	p 177	A93-28732 *	p 167	A93-30444 A93-30445	p 199 p 213	A93-35209	p 247
A93-24923 #	p 137	A93-27176	p 177	A93-28733 `	p 156	A93-30454 *	p 230	A93-35210	p 239
A93-24994 *	p 137	A93-27177 A93-27178	p 178	A93-28734	p 167	A93-30455	p 230	A93-35211	p 239
A93-25123	p 137	A93-27176 A93-27179	p 178	A93-28735 *	p 168	A93-30455 A93-30456	p 223	A93-35212	p 239
A93-25201	p 118	A93-27179 A93-27180	p 178	A93-28736	p 168	A93-30511 *	p 199	A93-35213	p 240
A93-25202	p 118		p 178	A93-28737	p 168	A93-30771	p 213	A93-35214	p 247
A93-25203	p 118	A93-27182 A93-27183	p 188 p 178	A93-28738	p 156	A93-30772	p 213	A93-35215	p 240
A93-25204	p 118	A93-27184	p 188	A93-28739	p 168	A93-30773	p 214	A93-35216	p 247
A93-25205	p 130	A93-27185 *	p 178	A93-28740	р 168	A93-30928 #	p 223	A93-35217	p 240
A93-25206	p 118	A93-27186	p 188	A93-28741	p 168	A93-31031 #	p 230	A93-35219	p 248
A93-25207	p 130	A93-27187	p 178	A93-28743	p 156	A93-31032 #	p 231	A93-35220	p 256
A93-25208	p 118	A93-27188 *	p 179	A93-28744	p 169	A93-31034 *#	p 231	A93-35221	p 248
A93-25209	p 130	A93-27190 *	p 189	A93-28745	p 156	A93-31188	p 200	A93-35222	p 248
A93-25210	p 119	A93-27191	p 189	A93-28746 *	p 156	A93-31190	p 200	A93-35223	p 248
A93-25308 *	p 137	A93-27192	p 160	A93-28747	p 169	A93-31267 *	p 214	A93-35224	p 240
A93-25309	p 137	A93-27193 *	p 189	A93-28748 *	p 157	A93-31490	p 223	A93-35225	p 240
A93-25363	p 137	A93-27194 *	p 179	A93-28750	p 169	A93-31491	p 223	A93-35226	p 248 p 248
A93-25482 A93-25487	p 138	A93-27195 *	p 179	A93-28751	p 169	A93-31517	p 231	A93-35227 A93-35228	p 248
	p 138	A93-27196	p 179	A93-28752	p 157	A93-31522	p 231	A93-35229	p 240
A93-25600	p 119	A93-27224	p 152	A93-28754	p 169	A93-31530	p 200	A93-35229	p 249
A93-25651	p 112	A93-27451	p 189	A93-28755	p 169	A93-31531	p 214	A93-35231	p 249
A93-25652	p 119	A93-27452	p 179	A93-28756	p 170 p 170	A93-31533	p 231	A93-35237	p 240
A93-25653	p 119	A93-27453	p 179	A93-28757	p 170	A93-31545 *	p 214	A93-35232	p 256
A93-25821	p 151	A93-27454	p 180	A93-28758	p 170	A93-31626	p 231	A93-35234	p 249
A93-26245	p 159	A93-27455 *	p 189	A93-28759 *	p 170	A93-31628	p 200	A93-35235	p 262
A93-26500 * A93-26548	p 151	A93-27456	p 180	A93-28760	p 170	A93-31782	p 231	A93-35236	p 249
A93-26549	p 151 p 151	A93-27460	p 152	A93-28761 A93-28762	p 171	A93-31944	p 231	A93-35237	p 262
A93-26567	p 181	A93-27561	p 196	A93-28763	p 157	A93-31993 *	p 231	A93-35238	p 249
A93-26569	p 174	A93-27649	p 160	A93-28764	p 157	A93-32004	p 223	A93-35239	p 262
A93-26570	p 159	A93-27685	p 160	A93-28765	p 171	A93-32071	p 200	A93-35240	p 240
A93-26571	p 159	A93-27686	p 161	A93-28766	p 171	A93-32072	p 200	A93-35241	p 256
A93-26572	p 160	A93-27775 *	p 152	A93-29101 *	p 190	A93-32073	p 231	A93-35242	p 241
A93-26832	p 160	A93-27799	p 153	A93-29106	p 190	A93-32113 *	p 201	A93-35243	p 249
A93-26881	p 181	A93-27800	p 153	A93-29107	p 190	A93-32115 *	p 201	A93-35244	p 249
A93-26885	p 181	A93-27817	p 180	A93-29109	p 190	A93-32116	p 201	A93-35245	p 250
A93-26887	p 182	A93-27887 *	p 196	A93-29110	p 191	A93-32118 *	p 201	A93-35246	p 241
A93-26896 *	p 182	A93-27918	p 153	A93-29111 *	p 191	A93-32119 *	p 201	A93-35247	p 250
A93-26950	p 174	A93-28049 *	p 161	A93-29112	p 191	A93-32120 *	p 214	A93-35248	p 241
A93-27000 *	p 152	A93-28158	p 180	A93-29113 *	p 191	A93-32124 *	p 201	A93-35249	p 257
A93-27001	p 182	A93-28376	p 197	A93-29114 *	p 191	A93-32125	p 202	A93-35250	p 250
A93-27002 *	p 182	A93-28377	p 197	A93-29115 *	p 192	A93-32176 * A93-32243 *	p 214 p 202	A93-35251	p 257
A93-27003 *	p 182	A93-28676	p 161	A93-29116 *	p 192	A93-32444 *	p 231	A93-35252	p 250
A93-27022	p 182	A93-28677	p 161	A93-29118	p 192	A93-32474 *	p 215	A93-35253	p 250
A93-27024	p 183	A93-28678 A93-28679	p 161 p 162	A93-29121 *	p 192	A93-32651 *	p 202	A93-35254	p 250
A93-27025	p 183	A93-28680	p 162	A93-29132	p 192	A93-32652 *	p 202	A93-35255	p 250
A93-27027	p 183	A93-28681	p 162	A93-29135 *	p 193	A93-32670	p 202	A93-35256	p 251
A93-27028	p 183	A93-28682	p 162	A93-29136	p 193	A93-32749 *	p 202	A93-35257	p 251
A93-27029	p 183	A93-28683	p 162	A93-29137 *	p 193	A93-32773 *	p 203	A93-35258	p 241
A93-27030	p 183	A93-28684	p 163	A93-29141	p 193	A93-32774 *	p 215	A93-35259	p 241
A93-27031	p 184	A93-28685	p 163	A93-29696	p 193	A93-32775	p 215	A93-35260 A93-35261	p 241 p 242
A93-27032 *	p 184	A93-28686	p 163	A93-30051	p 227	A93-32776	p 215	A93-35261	p 242
A93-27033 A93-27034 *	p 184 p 184	A93-28687	p 163	A93-30052 A93-30053	p 227 p 227	A93-32777	p 215	A93-35263	p 242
A93-27034 A93-27035	p 184	A93-28688	p 163	A93-30054	p 227	A93-32778	p 215	A93-35264	p 242
A93-27035 A93-27037	p 184	A93-28689	p 164	A93-30054 A93-30055	p 227	A93-32780	p 223	A93-35493 *	p 251
A93-27038 *	p 185	A93-28690	p 164	A93-30056	p 227	A93-32781 *	p 216	A93-35494 *	p 251
A93-27048 *	p 160	A93-28691 *	p 153	A93-30057	p 227	A93-32782 *	p 224	A93-35495	p 251
A93-27049 *	p 152	A93-28692 *	p 180	A93-30058	p 227	A93-32783	p 216	A93-35496	p 251
A93-27050 *	p 152	A93-28693	p 153	A93-30059	p 228	A93-32784	p 216	A93-35497	p 252
A93-27126	p 185	A93-28694	p 153	A93-30060	p 228	A93-32785 *	p 216	A93-35498	p 242
A93-27127	p 185	A93-28695	p 189	A93-30061	p 228	A93-32786	p 216	A93-35499	p 257
A93-27128	p 185	A93-28696 *	p 164	A93-30062	p 228	A93-32787	p 217	A93-35500	p 252
A93-27129	p 185	A93-28697 *	p 164	A93-30063	p 228	A93-32788 A93-32850	p 224	A93-35530	p 262
A93-27130	ρ 175	A93-28698 *	p 153	A93-30064	p 228	A93-32050	p 203	A93-35534	p 263
A93-27131	p 185	A93-28699	p 164	A93-30065	p 228	A93-33027 *	p 203	A93-35536	p 263
A93-27135	p 175	A93-28700 *	p 154	A93-30066	p 229	A93-33027	p 203	A93-35566	p 263
A93-27137	ρ 175	A93-28701	p 165	A93-30067	p 229	A93-33028 A93-33029	p 203 p 203	A93-35570	p 263
A93-27138	p 175	A93-28702	p 165 p 154	A93-30068	p 229	A93-33029	p 203	A93-35571	p 263
A93-27139	p 175	A93-28704 A93-28705	p 165	A93-30069	p 229	A93-33030	p 204	A93-35670	p 242
A93-27140	p 175	A93-28705 A93-28706 *	p 154	A93-30070 *	p 229	A93-33033 *	p 204	A93-35671	p 242
A93-27141	p 186	A93-28707	p 180	A93-30071 *	p 229	A93-33035 *	p 204	A93-35672	p 243
A93-27142	p 176	A93-28708	p 165	A93-30072	p 230	A93-33036 *	p 204	A93-35679	p 243
A93-27143 *	p 176	A93-28709	p 165	A93-30239	p 222	A93-33038 *	p 204	A93-35914 *	p 263
A93-27144 *	p 176	A93-28710	p 166	A93-30276 *	p 211	A93-33043 *	p 204	A93-35918 *	p 264
A93-27145	p 186	A93-28711 *	p 154	A93-30277 *	p 222	A93-33045 *	p 205	A93-36229 * A93-36551	p 257
A93-27147	p 176	A93-28712 *	p 166	A93-30278	p 211	A93-33250	p 232	A93-36552	p 268 p 268
A93-27148	p 186	A93-28713 *	p 166	A93-30279	p 211 p 212	A93-33443 *	p 232	A93-36554 *	p 268
A93-27151	p 186	A93-28714 *	p 154	A93-30280	p 212 p 212	A93-33444	p 232	A93-36555	p 243
A93-27152	p 186	A93-28715 *	p 190	A93-30281		A93-33445 *	p 232	A93-36556	p 268
A93-27153	p 186	A93-28716 *	p 155	A93-30282	p 212	A93-33446 *	p 232		
A93-27154	p 187	A93-28717 *	p 190	A93-30283 *	p 212	A93-33447	p 233	A93-36557 *	p 243
A93-27155 *	p 187	A93-28718 *	p 166	A93-30284	p 212	A93-33448 *	p 233	A93-36558	p 269
A93-27156 °	p 187	A93-28719 *	p 166	A93-30285 *	p 213	A93-33449 *	p 233	A93-36559	p 243

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· · · · · · · · · · · · · · · · · · ·		•					M33-3	3203
A93-36560	p 269	A93-41343 *	p 294	A93-41544 *	p 308	A93-44903 *	р 328	A93-49562	p 382
A93-36561	p 269	A93-41344	p 294	A93-41545	p 308	A93-44922 *	p 339	A93-49563	p 388
A93-36562	p 244	A93-41345	p 294			A93-44923	p 339		
		A93-41346 *	p 294	A93-41546 '	p 282	A93-44928 *	p 328	A93-49564 *	p 391
A93-36563	p 269	A93-41365 *	p 294	A93-41547	p 308	A93-44929 *	p 328	A93-49565	p 382
A93-36564	p 269	A93-41367	p 294	A93-41548	p 309	A93-44930 *	p 328	A93-49566	p 382
A93-36583 *	p 257	A93-41368	p 294	A93-41549 1	p 309	A93-44931	p 329	A93-49567	p 382
A93-36723	p 252	A93-41369	p 287	A93-41551	p 274	A93-44933	p 329	A93-49568	p 383
A93-36724	p 252	A93-41371	p 295	A93-41552 *	p 309	A93-44934	p 329	A93-49569	p 383
A93-36742	ρ 252	A93-41373	p 295	A93-41553	p 309	A93-44935 *	p 329	A93-49570 °	p 377
A93-36743	p 252	A93-41374	p 295	A93-41554	p 309	A93-44939 *	p 329	A93-49571	р 383
A93-36744	p 257	A93-41375 *	p 295	A93-41555	p 309	A93-44940 °	p 339	A93-49572	p 383
A93-36745	p 253	A93-41376	p 295	A93-41564 *	p 310	A93-44941 *	p 329	A93-49573	p 383
A93-37070 *	p 264	A93-41377	p 295	A93-41565 °	p 310	A93-45320	p 332	A93-49574	р 383
A93-37300 A93-38451	p 264	A93-41386 *	p 295	A93-41978	p 344	A93-45321	p 333	A93-49575	р 377
	p 271	A93-41387 *	p 296	A93-41991	p 344	A93-45322	p 333	A93-49607	p 392
A93-39261 * A93-39280	p 277	A93-41388	p 273	A93-41995	p 345	A93-45323	p 340	A93-50338	p 388
A93-39571	p 271 p 286	A93-41389 *	p 296	A93-42094	p 345	A93-45436 *	p 350	A93-50513 * A93-50592 *	p 392
A93-39572	p 286	A93-41390 °	p 273	A93-42107	p 345	A93-45598 *	p 364	A93-50592 *	p 392 p 392
A93-39573	p 289	A93-41391	p 274	A93-42114 A93-42119 *	p 345 p 345	A93-45685	p 364	A93-50594	p 392
A93-39574	p 289	A93-41392	p 296	A93-42119 A93-42121	p 345	A93-45687	p 364	A93-50596	p 392
A93-39575	p 286	A93-41401	p 296	A93-42122	p 346	A93-45688	р 364	A93-51025	p 378
A93-39703	p 271	A93-41402	p 296	A93-42123	p 346	A93-45691	р 359	A93-51023	p 378
A93-39704 *	p 277	A93-41404	p 296	A93-42124 *	p 346	A93-45692	p 359	A93-51115	p 388
A93-39705 *	p 278	A93-41405 *	p 297	A93-42125	p 346	A93-45995	p 357	A93-51116	p 384
A93-39706	p 278	A93-41406 *	p 297	A93-42126	p 331	A93-46075	p 357	A93-51117	p 384
A93-39707	p 271	A93-41407	p 297	A93-42127	p 346	A93-46300	p 357	A93-51449 #	p 392
A93-39708	p 286	A93-41408	p 297	A93-42128 *	p 346	A93-46468 *	p 357	A93-51450 #	p 393
A93-39709	p 278	A93-41411	p 297	A93-42129	p 347	A93-46469 *	p 357	A93-51452 #	p 393
A93-39710	p 278	A93-41412	p 297	A93-42130	p 347	A93-46470 *	p 357	A93-51460 #	p 393
A93-39711	p 271	A93-41413 *	p 298	A93-42149	p 347	A93-46471 *	p 358	A93-51959	p 388
A93-39712	p 272	A93-41418 A93-41419 *	p 298	A93-42151	p 347	A93-46472 * A93-46606	p 358 p 358	A93-52187 *	p 388
A93-39713	p 278		p 298	A93-42173 *	p 347	A93-46801		A93-52297	p 384
A93-39714	p 278	A93-41420 A93-41423 *	p 298	A93-42186	p 323	A93-46810 *	р 364 р 365	A93-52298	p 384
A93-39715	p 272	A93-41424 *	p 298	A93-42187	p 323	A93-46966	p 363	A93-52299	p 384
A93-39716	p 278	A93-41425 *	p 298 p 299	A93-42188	p 331	A93-46967	p 359	A93-52300	p 393
A93-39717	p 272	A93-41426	p 299	A93-42189	p 331	A93-46968	p 360	A93-52301	p 388
A93-39725	p 279	A93-41427	p 299	A93-42190	p 323	A93-47019	p 365	A93-52302	p 385
A93-40308 *	p 272	A93-41428 *	p 299	A93-42191	p 331	A93-47096	p 360	A93-52303	p 385
A93-40548 *	p 272	A93-41431	p 299	A93-42192 *	p 323	A93-47097	p 360	A93-52304	p 385
A93-40549 *	p 279	A93-41434	p 299	A93-42193	p 323	A93-47098	p 360	A93-52305	p 385
A93-40550	p 279	A93-41435	p 299	A93-42450 *	p 324	A93-47099	p 358	A93-52306	p 385
A93-40771	p 287	A93-41436 *	p 300	A93-42658	p 339	A93-47100	p 358	A93-52307	p 386
A93-40772 *	p 287	A93-41437	р 300	A93-42668	p 324	A93-47125	p 372	A93-52308	p 393
A93-40773	p 272	A93-41438 *	p 300	A93-42814	p 347	A93-49177	p 378	A93-52309	p 394
A93-40774 A93-41075 *	p 279 p 273	A93-41439 *	p 300	A93-42840	p 348	A93-49178	p 379	A93-52401 A93-52402 *	р 386 р 386
A93-41117	p 279	A93-41440	p 300	A93-42841	p 348	A93-49179	p 375	A93-52402 A93-52403	
A93-41118	p 279 p 279	A93-41441 *	p 300	A93-42842	p 348 p 348	A93-49180	p 379	A93-52404	р 386 р 386
A93-41119	p 280	A93-41442	p 301	A93-42843 A93-42844	p 348	A93-49206 *	p 375	A93-52405	p 386
A93-41119	p 280	A93-41443 °	p 301	A93-42845 *	p 348	A93-49207	p 375	A93-52406	p 394
A93-41121	p 280	A93-41444 *	p 301	A93-42847	p 349	A93-49208 *	p 375	A93-52407	p 386
A93-41122 *	p 280	A93-41445 *	p 301	A93-42848	p 349	A93-49209	p 375	A93-52408	p 378
A93-41123	p 280	A93-41446	ρ 301	A93-42849	p 349	A93-49210	p 376	A93-52409 *	p 386
A93-41124	p 273	A93-41449	p 302	A93-42850	p 349	A93-49211	p 376	A93-52410	p 394
A93-41125	p 281	A93-41450	p 302	A93-42915	p 324	A93-49212 A93-49213	p 376	A93-52411	p 394
A93-41165	p 281	A93-41451	p 302	A93-43024	p 339	A93-49213 A93-49214	p 376 p 376	A93-52501	p 389
A93-41166	p 287	A93-41452 * A93-41453 *	p 302 p 302	A93-43025	p 324	A93-49214 A93-49218	p 389	A93-52502 *	p 394
A93-41167 *	p 273	A93-41463 *	p 302 p 302	A93-43034	p 324	A93-49219	p 389	A93-52503	p 394
A93-41168	p 281	A93-41464 *	p 303	A93-43035	p 324	A93-49220	p 379	A93-52504	p 394
A93-41169	p 281	A93-41468 *	p 282	A93-43036	p 324	A93-49221	p 379	A93-52505	p 386
A93-41170	p 281	A93-41472 *	p 303	A93-43070	p 325	A93-49222 *	p 379	A93-52506 *	p 389
A93-41171	p 282	A93-41473	p 303	A93-43073	p 325	A93-49223	p 389	A93-52507 *	p 394
A93-41172	p 289	A93-41474 *	p 303	A93-43074	p 325	A93-49224	p 376	A93-52617 *	p 386
A93-41173	p 289	A93-41475 *	p 303	A93-43078	p 325	A93-49225	p 379	A93-52618	p 378
A93-41174 A93-41175	p 289 p 289	A93-41478 *	p 303	A93-43136 A93-43330	p 325 p 339	A93-49226 *	p 380	A93-52619 A93-52620	р 387 р 387
A93-41175 A93-41306	p 289	A93-41480	p 304	A93-43722	p 349	A93-49227	p 380	A93-52641	p 395
A93-41306 A93-41307	p 290	A93-41482	p 304	A93-43722 A93-43791	p 354	A93-49228	p 380	A93-52661 #	p 406
A93-41309 *	p 290	A93-41483 *	p 304	A93-43792	p 354	A93-49276	p 387	A93-52662 #	p 406
A93-41310	p 290	A93-41484 *	p 304	A93-43793	p 354	A93-49291	p 380	A93-52664 #	p 406
A93-41311 *	p 290	A93-41485	p 304	A93-43794	p 325	A93-49292	p 380	A93-52666 * #	p 406
A93-41312 *	p 290	A93-41493	p 304	A93-43795	p 325	A93-49293	p 381	A93-52669 #	р 406
A93-41313 *	p 290	A93-41497	p 305	A93-44176	p 326	A93-49294 * A93-49295	р 377 р 381	A93-52674 #	p 407
A93-41314 *	p 291	A93-41503 * A93-41504 *	p 305	A93-44177	p 326	A93-49302	p 390	A93-52689 #	p 404
A93-41315	p 291	A93-41504 A93-41505	p 305 p 305	A93-44178	р 326	A93-49357	p 390	A93-52692 #	p 400
A93-41316	p 291	A93-41506 *	p 305	A93-44179 *	р 326	A93-49393	p 390	A93-52694 #	p 404
A93-41317	p 291	A93-41507 *	p 305	A93-44180	p 332	A93-49394	p 390	A93-52721 *	p 404
A93-41319	p 291	A93-41507 A93-41509	p 306	A93-44181	p 326	A93-49397 *	p 390	A93-52723	p 397
A93-41320	p 291	A93-41510 *	p 306	A93-44182	p 332	A93-49398	p 390	A93-52764 *	p 407
A93-41321	p 291	A93-41511 *	p 306	A93-44183	p 326	A93-49399	p 381	A93-52867	p 407
A93-41322	p 287	A93-41512	p 306	A93-44184 *	p 327	A93-49400	p 381	A93-52878 *	p 397
A93-41323 *	p 292	A93-41513	p 306	A93-44842	p 327	A93-49401	p 381	A93-52915 * ·	p 407
A93-41324 *	p 287	A93-41514	p 306	A93-44843	p 327	A93-49402	p 381	A93-52916 *	p 407
A93-41325 *	p 292	A93-41515 *	p 307	A93-44844	p 327	A93-49403 *	p 382	A93-53025 * A93-53038 *	р 400 р 407
A93-41326	p 292	A93-41516 *	p 307	A93-44845 A93-44846	р 327 р 350	A93-49404 *	p 387	A93-53038 A93-53119	р 407 р 408
A93-41327	p 292 p 292 ·	A93-41517 *	. p 307	A93-44846 A93-44847	p 332	A93-49405	p 391	A93-53119	p 408
A93-41328 A93-41333	p 292 · p 292	A93-41518	p 307	A93-44848	p 332 p 332	A93-49406	p 387	A93-53121	p 408
A93-41335	p 293	A93-41519	p 307	A93-44849	p 332 p 332	A93-49443 *	p 391	A93-53122	p 408
A93-41335 A93-41337 *	p 293	A93-41520 *	p 274	A93-44877 *	p 355	A93-49445 *	p 391	A93-53123	p 408
A93-41337 A93-41338 *	p 293	A93-41521	p 307	A93-44878	p 327	A93-49451	p 391	A93-53125 *	p 408
A93-41339 *	p 293	A93-41534	p 308	A93-44879 *	p 327	A93-49555	p 377	A93-53284	p 397
A93-41340 *	p 293	A93-41539 *	p 308	A93-44880 *	p 328	A93-49556	p 377	A93-53285	p 397
A93-41341 *	p 293	A93-41541	p 308	A93-44895 *	p 350	A93-49560	p 382	A93-53286	p 411
A93-41342	p 293	A93-41542 *	p 308	A93-44900	p 328	A93-49561	p 377	A93-53289	p 411

A93-53291	p 397	N93-10662 # p 25	N93-12508 # p 35	N93-14651 # p 70	N93-17900 # p 120
A93-53292	p 412	N93-10709 # p 13	N93-12509 # p 35	N93-14660 # p 59	N93-17918 # p 120
A93-53294 *	p 412		N93-12545 # p 63		N93-17919 # p 131
A93-53350	p 398	N93-10713 # p30	N93-12566 # p 49	N93-14708 p 53	N93-17921 # p 131
A93-53746 *		N93-10719 # p 25		N93-14713 ° p 70	N93-17926 # p 120
	p 409	N93-10765 # p 14	N93-12576 # p 63	N93-14731 * p 53	
A93-54158 *	p 409	N93-10796 # p 14	N93-12609 # p 63	N93-14782 # p 53	N93-17970 *# p 138
A93-54163	р 398		N93-12612 # p 49	N93-14788 # p 59	N93-17971 *# p 138
A93-54306 *	p 400		N93-12649 # p 49		N93-17973 * # p 139
A93-54308	p 409	N93-10835 # p 5	N93-12662 # p 57	N93-14789 # p 54	N93-17985 # p 120
A93-54309	p 401	N93-10890 *# p 31	N93-12712 # p 63	N93-14870 * p 70	N93-18006 # p 121
A93-54410	p 409	N93-10974 # p5		N93-14951 p 70	N93-18018 *# p 139
		N93-10979 # p 25	N93-12732 # p 63	N93-15006 # p 54	
A93-54826 *	p 409	N93-10994 # p 31	N93-12751 # p 49	N93-15009 # p 54	N93-18019 *# p 139
A93-54845 °	p 409		N93-12756 # p 50	N93-15053 # p 54	N93-18027 # p 131
A93-54868	p 410	N93-11081 # p 25	N93-12768 # p 39		N93-18029 # p 139
A93-54874	p 410	N93-11146 # p 14	N93-12860 # p 64		N93-18035 # p 139
A93-54887 *	p 410	N93-11193 # p 14	N93-12871 # p 39	N93-15184 # p 59	N93-18108 ° p 121
A93-54971	p 398	N93-11212 p 26	N93-12901 *# p 40	N93-15192 # p 54	N93-18111 *# p 139
A93-55161		N93-11279 # p31		N93-15198 # p 55	N93-18113 *# p 140
	p 404	N93-11283 # p 14	N93-12905 # p 50	N93-15208 # p 43	N93-18153 *# p 140
A93-55162 *	p 401	N93-11284 # p 14	N93-12945 # p 50	N93-15211 # p 43	
A93-55163	p 401	N93-11285 # p 15	N93-12949 *# p 40	N93-15216 # p 59	N93-18156 *# p 140
A93-55164	p 405		N93-12960 # p 64		N93-18159 # p 121
A93-55165	p 401	N93-11286 # p 15	N93-12966 * # p 64		N93-18200 # p 140
A93-55166	p 405	N93-11287 # p 15	N93-12983 # p 64	N93-15329 # p 60	N93-18205 # p 131
A93-55167	p 401	N93-11288 # p 15	N93-12990 *# p 64	N93-15363 # p 71	N93-18209 # p 121
A93-55168 *	p 398	N93-11289 # p 15	N93-13023 *# p 50	N93-15400 # p 60	N93-18210 # p 121
A93-55169	p 401	N93-11290 # p 15		N93-15583 * # p 55	N93-18211 # p 121
		N93-11291 # p 16		N93-15710 # p 104	N93-18217 # p 121
A93-55292	p 398	N93-11292 # p 16	N93-13034 # p 40	N93-15823 *# p 80	
A93-55328	p 402	N93-11293 # p 16	N93-13061 *# p 50	N93-15824 # p 95	N93-18223 # p 122
A93-55329	p 398		N93-13083 # p 40	N93-15825 *# p 110	N93-18252 # p 122
A93-55330	p 405	N93-11294 # p 16	N93-13116 # p 50		N93-18264 # p 122
A93-55332	p 402	N93-11295 # p 16	N93-13167 *# p 40	N93-15900 # p 95	N93-18273 # p 132
A93-55333	p 402	N93-11296 # p 17	N93-13252 # p 50	N93-15965 # p 80	N93-18280 # p 122
A93-55334	p 410	N93-11297 # p 17	N93-13269 # p 40	N93-15968 # p 104	N93-18291 # p 132
		N93-11298 # p 17		N93-16033 # p 104	N93-18292 # p 122
A93-55348 *	p 405	N93-11299 # p 18		N93-16041 # p 95	N93-18293 # p 140
A93-55457	p 402	N93-11300 # p 18	N93-13449 *# p 51	N93-16048 # p 104	
A93-55458 *	p 399		N93-13450 *# p 65	N93-16111 # p 99	N93-18294 # p 132
A93-55469 *	p 410		N93-13457 *# p 41		N93-18295 # p 123
A93-55579	p 405	N93-11302 # p 18	N93-13464 p 65	N93-16166 # p 95	N93-18298 # p 132
A93-55580	p 399	N93-11303 # p 18	N93-13486 p 65	N93-16187 # p 95	N93-18301 # p 123
A93-55802	p 402	N93-11304 # p 19	N93-13503 # p 41	N93-16189 # p 99	N93-18351 p 112
A93-55805 *	p 402	N93-11305 # p 19	N93-13520 # p 41	N93-16258 # p 104	N93-18359 * # p 132
	•	N93-11306 # p 19	N93-13522 # p 51	N93-16441 # p 96	N93-18362 # p 123
A93-55838	p 410	N93-11307 # p 19		N93-16552 # p 96	N93-18363 # p 123
A93-55929	p 402	N93-11308 # p 20	N93-13571 *# p 65	N93-16619 *# p 96	
A93-55930	p 399		N93-13612 *# p 42	N93-16699 *# p 105	N93-18375 * # p 123
A93-55931	p 399		N93-13692 * # p 65	N93-16709 *# p 110	N93-18376 * # p 123
A93-55932	p 399	N93-11310 # p20	N93-13700 # p 42		N93-18381 *# p 124
A93-55933	p 399	N93-11311 # p 20	N93-13717 ° # p 65	N93-16783 *# p 99	N93-18517 * # p 141
A93-55934	p 399	N93-11312 # p 21	N93-13863 # p 42	N93-16799 *# p 81	N93-18545 * # p 112
A93-55935	p 403	N93-11313 # p 21	N93-13874 # p 66	N93-16800 *# p81	N93-18546 # p 112
		N93-11314 # p 21	N93-13909 p 66	N93-16801 *# p 99	N93-18547 * # p 113
A93-55936 *	p 399	N93-11315 # p 21		N93-16802 *# p 81	N93-18548 # p 113
A93-55937 *	p 400	N93-11316 # p 21	N93-13941 # p 51	N93-16803 *# p 81	
A93-55938	p 410	N93-11317 # p21	N93-13991 *# p 66	N93-16804 * # p 81	N93-18549 *# p 113
A93-55939 *	p 403		N93-13992 * # p 66	N93-16805 *# p81	N93-18550 *# p 113
A93-55940	p 403	N93-11318 # p 22	N93-13993 * # p 67		N93-18551 *# p 113
A93-55941 *	p 403	N93-11415 # p 26	N93-13994 * # p 67	N93-16806 *# p 81	N93-18552 * # p 113
A93-55942	p 403	N93-11445 # p 22	N93-13996 * # p 67	N93-16807 * # p 82	N93-18553 * # p 114
A93-55943 *	p 403	N93-11488 # p 26	N93-13997 * # p 67	N93-16808 *# p 100	N93-18561 *# p 114
A93-55944	p 403	N93-11503 # p 26	N93-13998 *# p 67	N93-16840 * # p 105	N93-18596 *# p 124
		N93-11559 # p 31	N93-13999 *# p 67	N93-16862 * # p 105	N93-18608 *# p 114
A93-55945	p 404	N93-11561 # p 22		N93-16865 * # p 105	N93-18868 # p 133
A93-55946 *	p 404	N93-11630 # p5	N93-14000 *# p 68	N93-16866 # p 105	
A93-55947	p 404	N93-11649 *# p 31	N93-14001 *# p 68	N93-16867 *# p 105	
A93-55948	p 405	•	N93-14002 * # p 51	N93-16962 # p 96	N93-18952 # p 124
A93-55949	p 406	N93-11743 # p 31	N93-14003 *# p 68	N93-17026 # p 100	N93-19037 * # p 114
A93-55997 °	p 412	N93-11779 # p 26	N93-14013 * # p 68		N93-19039 *# p 141
A93-55998 *	p 412	N93-11783 # p 32	N93-14014 * # p 68	N93-17042 *# p 106	N93-19054 *# p 114
A93-55999	p 400	N93-11784 # p 32	N93-14018 *# p 69	N93-17045 *# p 106	N93-19072 # p 124
A93-56000	p 412	N93-11812 # p32	N93-14020 *# p 57	N93-17049 * # p 82	N93-19104 *# p 141
A93-56254	p 411	N93-11841 # p 22	N93-14027 # p 51	N93-17058 # p 96	N93-19369 # p 125
		N93-11873 # p 23	N93-14028 # p.51	N93-17087 *# p 106	N93-19377 *# p 114
A93-56255	p 411	N93-11893 # p 23		N93-17088 *# p 106	N93-19399 *# p 115
A93-56256	p 411	N93-11922 *# p 32		N93-17189 # p82	N93-19449 # p 133
A93-56260	p 411	N93-11924 *# p 32	N93-14090 # p 69	N93-17214 # p 82	
A93-56548 *	р 400	N93-11930 *# p 32	N93-14103 # p 52	N93-17230 # p 97	N93-19464 * # p 141
			N93-14109 # p 52	N93-17303 *# p 82	N93-19465 *# p 141
N93-10075 *	p 12	N93-11941 * # p 33	N93-14161 # p 69		N93-19466 * # p 142
N93-10076 *	p 12	N93-11976 *# p 33	N93-14162 # p 52		N93-19648 * # p 125
N93-10077 *	p 12	N93-11981 *# p 33	N93-14163 # p 52	N93-17359 # p 82	N93-19660 # p 133
N93-10079	p 12	N93-12014 * # p 6	N93-14210 # p 52	N93-17442 *# p 106	N93-19662 # p 142
		N93-12018 * # p 33	N93-14240 # p 52	N93-17443 *# p 106	N93-19663 # p 125
N93-10080 *	p 12	N93-12079 # p 33	N93-14267 # p 57	N93-17444 *# p 106	N93-19664 # p 125
N93-10085 * #	p 4	N93-12145 # p 23		N93-17445 # p 107	N93-19665 # p 142
N93-10109	p 4	N93-12174 *# p 6	N93-14416 # p 58	N93-17446 * # p 107	
N93-10110 *	p 5	N93-12195 *# p 34	N93-14427 # p 69	N93-17447 * # p 107	N93-19666 # p 142
N93-10217 #	p 30		N93-14510 # p 58	N93-17448 *# p 107	N93-19667 # p 142
N93-10222 #	p 12	N93-12211 * # p 34	N93-14520 # p 69	N93-17458 *# p 83	N93-19668 # p 142
N93-10261 #	p 30	N93-12225 # p 27	N93-14532 # p 42		N93-19669 # p 142
N93-10271 #	p 12	N93-12229 # p 34	N93-14535 # p 53	N93-17684 # p 100	N93-19670 # p 143
N93-10271 #	p 24	N93-12252 # p 27	N93-14548 # p 69	N93-17697 # p 107	N93-19671 # p 143
		N93-12266 # p6	N93-14554 # p 70	N93-17710 *# p 108	N93-19672 # p 143
N93-10288 #	p 30	N93-12291 # p 34	N93-14556 # p 53	N93-17780 * # p 83	N93-19679 # p 133
N93-10321 #	p 24	N93-12315 # p6		N93-17805 * # p 108	N93-19680 # p 133
N93-10438 #	p 12	N93-12319 *# p 35	N93-14557 # p 42	N93-17806 *# p 108	N93-19681 # p 134
N93-10461 #	p 5	N93-12423 # p 34	N93-14580 # p 58	N93-17816 # p 130	
N93-10613 #	p 13		N93-14600 # p 58	N93-17817 # p 119	N93-19682 # p 134
N93-10626 #	p 13	N93-12427 * # p 23	N93-14602 # p 58	N93-17820 # p 130	N93-19683 # p 125
N93-10628 #	p 5	N93-12432 # p 27	N93-14603 * p 53		N93-19694 # p 126
	•	N93-12469 # p 23	N93-14614 * # p 70		N93-19695 # p 126
N93-10650 #	p 13	N93-12482 # p6	• •	N93-17857 # p 131	
N93-10658 #	0.25	N93-12486 # p 35	N93-14646 # p 58	N93-17895 # p 120	•
	p 25	1433*12400 # P33			
N93-10661 #	p 13	N93-12491 # p 35	N93-14648 # p 42	N93-17896 # p 120	N93-19697 # p 126

ACCESSION NUMBER INDEX N93-31917

N93-19698 #	p 126	N93-22389 #	p 196	N93-25203 #	p 257	N93-27788 * #	p 312	N93-29471 #	р 350
N93-19699 #	p 143	N93-22622 * #	p 205	N93-25213 #	p 257	N93-27789 ' //	p 312	N93-29481 #	p 340
	p 134 ·		p 205	N93-25214 #	p 253	N93-27790 * #	p 312	N93-29484 #	p 351
N93-19703 #	·		p 205		•	N93-27791 '#	p 312		
N93-19704 #	p 143	N93-22625 *#	p 206	N93-25242 · //	p 244	N93-27792 *#	p 312	N93-29502 *#	p 333
N93-19705 #	p 134			N93-25318 #	p 264	N93-27793 *#	p 313	N93-29509 #	p 333
N93-19707 #	p 127		p 233	N93-25405 #	p 244			N93-29546 * #	p 334
N93-19708 #	p 127		p 206	N93-25406 #	p 244	N93-27794 * #	p 313	N93-29564 * #	p 340
N93-19709 #	p 134		p 217	N93-25407 #	p 253	N93-27795 *#	p 313	N93-29606	p 351
		N93-22640 ° #	p 233			N93-27847 * #	p 313	N93-29607	p 351
N93-19710 #	p 127	N93-22649 * #	p 206	N93-25415 #	p 264	N93-27848 *#	p 313		
N93-19751 #	p 1.15		p 207	N93-25457 #	p 244	N93-27849 *#	p 313	N93-29610 *	p 340
N93-19757 #	p 144		p 217	N93-25531	p 264	N93-27850 * #	p 314	N93-29620 #	p 334
N93-19758 #	p 144			N93-25566 * #	p 244	N93-27851 #	p 314	N93-29651 *#	p 334
N93-19759 #	p 144		p 234	N93-25567 * #	p 253	N93-27858 *#		N93-29675	p 351
N93-19760 #	p 144		p 217	N93-25568 * #	p 253		p 314	N93-29702 * #	p 329
N93-19761 #	p 144		p 207	N93-25569 * #	p 253	N93-27859 *#	p 314	N93-29703 * #	p 330
N93-19762 #	p 144	N93-22913 #	p 207	N93-25592 *#	p 254	N93-27860 *#	р 314	N93-29727 *#	p 351
		N93-23068 * #	p 207			N93-27923 #	p 283	N93-29728 *#	p 351
N93-19764 #	p 145	N93-23069 * #	p 207	N93-25593 * #	p 254	N93-27927 #	p 314	N93-29733 *#	
N93-19765 #	p 145	N93-23070 * #	p 208	N93-25594 * #	p 254	N93-27967 *#	p 315		p 352
N93-19766 #	p 145		p 208	N93-25595 *#	p 258	N93-27976 * #	p 315	N93-29734 *#	p 352
N93-19767 #	p 145		p 208	N93-25617 * #	p 265	N93-27977 *#	p 315	N93-29747 *#	p 352
N93-19769 #	p 145		p 208	N93-25628 #	p 265	N93-27978 *#	p 315	N93-29748 °#	p 352
N93-19770 #	p 146			N93-25629 #	p 254		p 315	N93-29760 *#	p 352
N93-19772 #	p 146		p 209	N93-25654 #	p 258	N93-27979 *#		N93-29820 #	p 334
N93-19773 #	p 146		p 209	N93-25736 * #	p 258	N93-27985 *#	p 315	N93-29845 *#	p 353
N93-19774 #	p 146		p 234	N93-25764 #	p 245	N93-27989 #	p 275	N93-29888 #	p 353
		N93-23169 * #	p 209			N93-28029 #	p 316	N93-29889 #	p 353
N93-19775 #	p 146	N93-23233 * #	p 209	N93-25778 #	p 265	N93-28031 #	p 316		p 330
N93-19776 #	p 146		p 209	N93-25787 #	p 265	N93-28032 #	p 316	N93-29915 #	
N93-19777 #	p 147		p 209	N93-25815 #	p 258	N93-28033 #	p 316	N93-29924 #	p 353
N93-19778 #	p 147	N93-23410 *#	p 217	N93-25840 #	p 265	N93-28034 #	p 316	N93-30026 #	p 340
N93-19779 #	p 147		p 217	N93-25859 #	p 266	N93-28112 #	p 317	N93-30027 #	p 340
N93-19780 #	p 147			N93-25867 #	p 266			N93-30033 #	p 341
N93-19781 #	p 147	N93-23451 #	p 234	N93-25877 #	p 245	N93-28122 #	p 283	N93-30153 #	p 334
N93-19782 #	p 148	N93-23459 #	p 217	N93-25888 *#	p 266	N93-28128 * #	p 288	N93-30160 #	p 335
		N93-23479 #	p 224			N93-28199 #	p 275	N93-30163 #	p 341
N93-19784 #	p 148	N93-23647 #	p 234	N93-25900 #	p 254	N93-28200 #	p 275		
N93-19785 #	p 148	N93-23660 #	p 234	N93-25904 #	p 266	N93-28212 #	p 275		p 353
N93-19838 #	p 127	N93-23734 * #	p 218	N93-25944 #	p 255	N93-28293 #	p 284	N93-30192 #	p 335
N93-19882 * #	p 128	N93-23908 #	p 237	N93-25994 *	p 245	N93-28306 #	p 284	N93-30196 #	
N93-19891 * #	p 115		p 224	N93-26047 * #	p 266	N93-28307 #	p 288	N93-30204	p 353
N93-19892 * #	p 128			N93-26061 * #	p 266	N93-28415 *#		N93-30269	p 335
N93-19917 #	p 148	N93-23984 #	p 218	N93-26066 * #	p 245		p 276	N93-30322	p 341
N93-19955 #	p 148	N93-23986 #	p 224	N93-26068 * #	p 255	N93-28464 #	p 317	N93-30382 #	p 335
	p 135		p 235	N93-26069 *#	p 245	N93-28469 #	p 284	N93-30400 #	p 335
		N93-23995 #	p 235			N93-28479 #	p 317	N93-30421 #	p 335
N93-20050 #	p 148	N93-24001 #	p 235	N93-26073 * #	p 245	N93-28622 #	p 288		
N93-20065 *#	p 149	N93-24009 #	p 218	N93-26076 * #	p 267	N93-28651 #	p 276	N93-30422 #	p 336
N93-20303 * #	p 128	N93-24021 #	p 218	N93-26077 * #	p 246	N93-28683 #	p 276	N93-30425 #	p 341
N93-20314 * #	p 149	N93-24028 #	p 210	N93-26082 * #	p 258	N93-28684 #	p 276	N93-30426 #	p 341
N93-20318 * #	p 128		p 235	N93-26088 * #	p 267	N93-28739 *#	p 284	N93-30483 #	p 330
N93-20319 * #	p 149	N93-24067 #		N93-26089 #	p 267			N93-30494 #	p 336
N93-20326 #	p 135	N93-24088 #	p 218	N93-26133 * #	p 255	N93-28740 *#	p 284	N93-30515 #	p 336
N93-20384 #	p 128	N93-24092 #	p 219	N93-26138 #	p 259	N93-28741 *#	p 284	N93-30542 #	p 341
		N93-24093 #	p 219			N93-28742 * #	p 284	N93-30543 #	p 342
N93-20400 #	p 129	N93-24104 #	p 225	N93-26153 * #	p 267	N93-28757 #	p 317		
N93-20413 #	p 149	N93-24128 #	p 235	N93-26157 * #	p 269	N93-28758 #	p 284	N93-30566 * #	p 354
N93-20563 #	p 171	N93-24168 #	p 236	N93-26218 #	p 255	N93-28759 #	p 285	N93-30575 #	p 342
N93-20580 #	p 171	N93-24192 *#	p 225	N93-26229 #	p 267	N93-28835 #	p 285	N93-30588 #	p 336
N93-20587 #	p 172	N93-24227 #	p 225	N93-26259 #	p 246	N93-28848 #	p 276	N93-30590	p 354
N93-20736 * #	p 172			N93-26265 #	p 268			N93-30594 #	p 330
N93-20848 #	p 157	N93-24238 #	p 219	N93-26307 #	p 259		p 317	N93-30613 #	p 336
N93-20889 *	p 172	N93-24247 #	p 219	N93-26347 #	p 259	N93-28853 #	p 317	N93-30659 #	p 336
N93-20908 *#	p 181	N93-24297 #	p 225	N93-26349 #	p 260	N93-28855 #	p 318	N93-30665 * #	p 330
		N93-24319 #	p 225	N93-26353 #	p 260	N93-28856 #	p 318	N93-30676 * #	p 342
N93-20959 #	p 158	N93-24345 #	p 225			N93-28857 #	p 318	N93-30679 * #	p 342
N93-20998 * #	p 172	N93-24346 #	p 226	N93-26356 #	p 260	N93-28858 #	p 318		
N93-21044 °	p 172	N93-24352 #	p 226	N93-26364 #	p 260	N93-28859 #	p 318	N93-30680 * #	p 342
N93-21046 #		N93-24354 #	p 219	N93-26391 #	p 260	N93-28860 #	p 319	N93-30684 * #	p 342
N93-21047 #	p 172	N93-24362 #	p 236	N93-26404 #	p 268	N93-28861 #	p 319	N93-30818 #	p 331
N93-21074 #	p 158	N93-24363 #	p 220	N93-26435 #	p 260	N93-28862 #	p 319	N93-30882 #	p 336
N93-21085 #	p 158	N93-24366 #	p 226	N93-26436 #	p 260	N93-28863 #	p 319	N93-30890 #	p 337
N93-21097 #	p 158		p 220	N93-26446 #	p 261	N93-28864 #	p 319	N93-30894 #	p 337
N93-21098 #	p 158	N93-24367 #	p 220	N93-26449 #	p 261	N93-28865 #	p 319	N93-30897 #	p 337
N93-21099 * #	p 158	N93-24370 #		N93-26489 #	p 261			N93-30904 #	p 337
N93-21112 #	p 173	N93-24373 #	p 237	N93-26521 #	p 261		p 320	N93-30908 #	p 337
N93-21113 #	p 193	N93-24379 #	p 210	N93-26587 #	p 246	N93-28867 #	p 320	N93-31061 #	p 337
N93-21114 #	p 173	N93-24382 #	p 226	N93-26700 *#	p 246	N93-28870 #	p 320	N93-31094 #	p 338
	p 194	N93-24386 #	p 220	N93-26945	p 256	N93-28872 #	p 320	N93-31138 #	p 338
			p 220			N93-28884 #	p 320	N93-31140 #	p 338
N93-21215 #	p 194	N93-24399 #	p 221	N93-27085 * #	p 246	N93-28890 #	p 276		
N93-21230 #	p 159	N93-24400 #	p 221	N93-27100 *#	p 310	N93-28895 *#	p 322	N93-31158 #	p 338
N93-21269 #	p 194		p 210	N93-27101 *#	p 310	N93-28897 #	p 320	N93-31161 #	p 331
N93-21369 * #	p 173	N93-24402 #	p 210	N93-27102 ° #	p 282	N93-28901 #	p 288	N93-31225 #	p 338
N93-21370 * #	p 194			N93-27103 #	p 288			N93-31229 #	p 343
		N93-24402 #					D 285		- 040
N93-21402 #	p 181		p 210	N93-27113 *#	p 282	N93-28939 #	p 285 n 321	N93-31230 #	p 343
	p 181 p 194	N93-24404 #	p 211			N93-28939 # N93-28941 #	p 321	N93-31231 #	p 343
N93-21402 # N93-21436 * #	p 194	N93-24404 # N93-24405 #	p 211 p 237	N93-27113 * #	p 282	N93-28939 # N93-28941 # N93-28942 #	p 321 p 321		
N93-21402 # N93-21436 * # N93-21498 #	p 194 p 173	N93-24404 # N93-24405 # N93-24406 #	p 211 p 237 p 236	N93-27113 * # N93-27121 # N93-27122 * #	p 282 p 310 p 274	N93-28939 # N93-28941 # N93-28942 # N93-28952 *#	p 321 p 321 p 276	N93-31231 # N93-31232 #	p 343 p 343
N93-21402 # N93-21436 * # N93-21498 # N93-21537 #	p 194 p 173 p 194	N93-24404 # N93-24405 # N93-24406 # N93-24420 #	p 211 p 237 p 236 p 221	N93-27113 *# N93-27121 # N93-27122 *# N93-27152 #	p 282 p 310 p 274 p 274	N93-28939 # N93-28941 # N93-28942 # N93-28952 *# N93-28977 *#	p 321 p 321 p 276 p 321	N93-31231 # N93-31232 # N93-31233 #	p 343 p 343 p 343
N93-21402 # N93-21436 * # N93-21498 # N93-21537 # N93-21753 #	p 194 p 173 p 194 p 195	N93-24404 # N93-24405 # N93-24406 # N93-24420 # N93-24431 #	p 211 p 237 p 236 p 221 p 226	N93-27113 ° # N93-27121 # N93-27122 ° # N93-27152 # N93-27158 #	p 282 p 310 p 274 p 274 p 283	N93-28939 # N93-28941 # N93-28942 # N93-28952 * # N93-28977 * # N93-29041 * #	p 321 p 321 p 276 p 321 p 285	N93-31231 # N93-31232 # N93-31233 # N93-31234 #	p 343 p 343 p 343 p 343
N93-21402 # N93-21436 * # N93-21498 # N93-21537 # N93-21753 # N93-21795 #	p 194 p 173 p 194 p 195 p 195	N93-24404 # N93-24405 # N93-24406 # N93-24420 # N93-24431 # N93-24441 #	p 211 p 237 p 236 p 221	N93-27113 ° # N93-27121 # N93-27122 ° # N93-27152 # N93-27158 # N93-27177	p 282 p 310 p 274 p 274 p 283 p 311	N93-28939 # N93-28941 # N93-28952 *# N93-28977 *# N93-29041 *# N93-29044 *#	p 321 p 321 p 276 p 321 p 285 p 321	N93-31231 # N93-31232 # N93-31233 # N93-31234 # N93-31235 #	p 343 p 343 p 343 p 343 p 344
N93-21402 # N93-21436 *# N93-21498 # N93-21537 # N93-21753 # N93-21795 # N93-21931 #	p 194 p 173 p 194 p 195 p 195 p 159	N93-24404 # N93-24405 # N93-24406 # N93-24420 # N93-24431 #	p 211 p 237 p 236 p 221 p 226	N93-27113 ° # N93-27121 # N93-27122 ° # N93-27152 # N93-27158 # N93-27177 N93-27360 ° #	p 282 p 310 p 274 p 274 p 283 p 311 p 275	N93-28939 # N93-28941 # N93-28952 # N93-28977 * # N93-29041 * # N93-29044 * # N93-29174 * #	p 321 p 321 p 276 p 321 p 285	N93-31231 # N93-31232 # N93-31233 # N93-31234 # N93-31235 # N93-31236 #	p 343 p 343 p 343 p 343 p 344 p 344
N93-21402 # N93-21436 * # N93-21498 # N93-21573 # N93-21753 # N93-21931 # N93-21933 #	p 194 p 173 p 194 p 195 p 195 p 159 p 159	N93-24404 # N93-24405 # N93-24406 # N93-24420 # N93-24431 # N93-24441 # N93-24455 #	p 211 p 237 p 236 p 221 p 226 p 236 p 211	N93-27113 ° # N93-27121 # N93-27122 ° # N93-27152 # N93-27158 # N93-27177 N93-27360 ° # N93-27409 #	p 282 p 310 p 274 p 274 p 283 p 311 p 275 p 283	N93-28939 # N93-28941 # N93-28952 # N93-28977 * # N93-29041 * # N93-29044 * # N93-29174 * #	p 321 p 321 p 276 p 321 p 285 p 321 p 276	N93-31231 # N93-31232 # N93-31233 # N93-31234 # N93-31235 # N93-31236 # N93-31237 #	p 343 p 343 p 343 p 343 p 344 p 344 p 344
N93-21402 # N93-21436 *# N93-21498 # N93-21537 # N93-21753 # N93-21795 # N93-21931 #	p 194 p 173 p 194 p 195 p 195 p 159 p 159 p 159	N93-24404 # N93-24405 # N93-24406 # N93-24431 # N93-24441 # N93-24455 # N93-24490 *#	p 211 p 237 p 236 p 221 p 226 p 236 p 211 p 211 p 236	N93-27113 * # N93-27121 * # N93-27152 * # N93-27158 * # N93-27156 * * N93-27360 * # N93-27409 * # N93-27654 #	p 282 p 310 p 274 p 274 p 283 p 311 p 275 p 283 p 283 p 283	N93-28939 # N93-28941 # N93-28952 # N93-28977 * # N93-29041 * # N93-29174 * # N93-29181 #	p 321 p 321 p 276 p 321 p 285 p 321 p 276 p 276	N93-31231 # N93-31232 # N93-31233 # N93-31234 # N93-31235 # N93-31236 # N93-31237 # N93-31238 #	p 343 p 343 p 343 p 343 p 344 p 344 p 344
N93-21402 # N93-21436 * # N93-21498 # N93-21573 # N93-21753 # N93-21931 # N93-21933 #	p 194 p 173 p 194 p 195 p 195 p 159 p 159 p 195 p 173	N93-24404 # N93-24405 # N93-24420 # N93-24421 # N93-24431 # N93-24441 # N93-24455 # N93-24450 #	p 211 p 237 p 236 p 221 p 226 p 236 p 211 p 236 p 211 p 236 p 237	N93-27113 *# N93-27121 # N93-27122 *# N93-27152 # N93-27158 # N93-27360 *# N93-27360 *# N93-27654 # N93-27718 *#	p 282 p 310 p 274 p 274 p 283 p 311 p 275 p 283	N93-28939 # N93-28941 # N93-28942 * N93-28977 * N93-29044 * N93-29144 * N93-29144 # N93-29181 # N93-29181 #	p 321 p 321 p 276 p 321 p 285 p 321 p 276 p 276 p 276 p 286	N93-31231 # N93-31232 # N93-31233 # N93-31234 # N93-31235 # N93-31236 # N93-31237 # N93-31238 # N93-31454 *#	p 343 p 343 p 343 p 343 p 344 p 344 p 344 p 360
N93-21402 # N93-21436 * N93-21438 # N93-21537 # N93-21753 # N93-21795 # N93-21931 # N93-21933 # N93-22002 *	p 194 p 173 p 194 p 195 p 195 p 159 p 159 p 159	N93-24404 # N93-24405 # N93-24420 # N93-24420 # N93-24441 # N93-24450 # N93-244502 # N93-24551 *#	p 211 p 237 p 236 p 221 p 226 p 236 p 211 p 236 p 237 p 221	N93-27113 * # N93-27121 * # N93-27122 * # N93-27152 # N93-27158 # N93-27160 * # N93-27360 * # N93-27718 * # N93-27718 * #	p 282 p 310 p 274 p 274 p 283 p 311 p 275 p 283 p 283 p 311 p 311	N93-28949 # N93-28941 # N93-28952 * N93-29941 * N93-29041 * N93-29144 * N93-29164 * N93-29166 *	p 321 p 321 p 276 p 321 p 285 p 321 p 276 p 276 p 286 p 277	N93-31231 # N93-31232 # N93-31233 # N93-31235 # N93-31236 # N93-31237 # N93-31237 # N93-31454 * N93-31455 *#	p 343 p 343 p 343 p 344 p 344 p 344 p 344 p 360 p 360
N93-21402 # N93-21498 # N93-21537 # N93-21753 # N93-21753 # N93-21931 # N93-21933 # N93-22002 * N93-22163 *	p 194 p 173 p 194 p 195 p 195 p 159 p 159 p 195 p 173	N93-24404 # N93-24406 # N93-24406 # N93-24420 # N93-24441 # N93-24445 # N93-24455 # N93-24502 # N93-24551 # N93-24550 #	p 211 p 237 p 236 p 221 p 226 p 236 p 211 p 236 p 237 p 221 p 221	N93-27113 *# N93-27121 # N93-27122 *# N93-27152 # N93-27158 # N93-27360 *# N93-27360 *# N93-27654 # N93-27718 *#	p 282 p 310 p 274 p 274 p 283 p 311 p 275 p 283 p 283 p 311	N93-28939 # N93-28941 # N93-28952 # N93-29041 * N93-29144 * N93-29144 * N93-29199 # N93-2916 * N93-29216 *	p 321 p 321 p 276 p 321 p 285 p 321 p 276 p 276 p 286 p 277 p 277	N93-31231 # N93-31232 # N93-31233 # N93-31235 # N93-31236 # N93-31237 # N93-31454 * N93-31455 * # N93-31455 * # N93-31455 * #	p 343 p 343 p 343 p 344 p 344 p 344 p 360 p 360 p 365
N93-21402 # N93-21496 # N93-21537 # N93-21537 # N93-21753 # N93-21931 # N93-21931 # N93-22002 * N93-22163 * N93-22164 *	p 194 p 173 p 194 p 195 p 195 p 159 p 159 p 195 p 173 p 174 p 195	N93-24404 # N93-24406 # N93-24406 # N93-24420 # N93-24431 # N93-24455 # N93-24450 # N93-24500 # N93-24590 # N93-24590 # N93-24738 *	p 211 p 237 p 236 p 221 p 226 p 236 p 211 p 236 p 237 p 221 p 221 p 222	N93-27113 * # N93-27121 # N93-27122 * # N93-27152 # N93-27158 # N93-27360 * # N93-27360 * # N93-27664 # N93-27718 * # N93-27719 * #	p 282 p 310 p 274 p 274 p 283 p 311 p 275 p 283 p 283 p 311 p 311	N93-28939 # N93-28942 # N93-28952 *# N93-28977 *# N93-29041 *# N93-29174 *# N93-2916 *# N93-29216 *# N93-29274 # N93-29224 *#	p 321 p 321 p 276 p 321 p 285 p 321 p 276 p 276 p 286 p 277 p 277 p 321	N93-31231 # N93-31232 # N93-31233 # N93-31235 # N93-31236 # N93-31237 # N93-31237 # N93-31454 * N93-31455 *#	p 343 p 343 p 343 p 344 p 344 p 344 p 344 p 360 p 360
N93-21402 # N93-21436 # N93-21498 # N93-21537 # N93-21755 # N93-21795 # N93-21931 # N93-22002 # N93-22163 * N93-22164 * N93-22188 * N93-22188 *	p 194 p 173 p 195 p 195 p 195 p 159 p 159 p 173 p 173 p 174 p 195 p 174	N93-24405 # N93-24406 # N93-24406 # N93-24420 # N93-24431 # N93-24451 # N93-244502 # N93-24502 # N93-24502 # N93-24503 # N93-24738 # N93-24738 #	p 211 p 237 p 236 p 221 p 226 p 236 p 211 p 236 p 211 p 236 p 221 p 221 p 221 p 222 p 222	N93-27113 * # N93-27121 * # N93-27122 * # N93-27152 # N93-27158 # N93-27177 N93-27360 * # N93-27654 # N93-27718 * # N93-27719 * # N93-27721 * # N93-27721 * #	p 282 p 310 p 274 p 274 p 283 p 311 p 275 p 283 p 283 p 311 p 311 p 311	N93-28939 # N93-28941 # N93-28952 * # N93-28971 * # N93-29041 * # N93-29174 * # N93-29181 * # N93-2916 * # N93-29216 * # N93-29274 * # N93-29324 * #	p 321 p 321 p 321 p 276 p 321 p 285 p 321 p 276 p 276 p 286 p 277 p 277 p 321 p 322	N93-31231 # N93-31232 # N93-31234 # N93-31235 # N93-31236 # N93-31237 # N93-31455 * * * * * * * * * * * * * * * * * *	p 343 p 343 p 343 p 344 p 344 p 344 p 360 p 360 p 365 p 365
N93-21402 # N93-21436 # N93-21498 # N93-21537 # N93-21753 # N93-21931 # N93-21931 # N93-22163 * N93-22164 * N93-22164 * N93-22189 * N93-22189 *	p 194 p 173 p 194 p 195 p 195 p 159 p 159 p 179 p 174 p 197 p 174	N93-24404 # N93-24406 # N93-24406 # N93-24420 # N93-24431 # N93-24455 # N93-24450 # N93-24500 # N93-24590 # N93-24590 # N93-24738 *	p 211 p 237 p 236 p 221 p 226 p 236 p 211 p 236 p 237 p 221 p 221 p 222	N93-27113 * # N93-27121 * # N93-27122 * # N93-27152 # N93-27158 # N93-27177 N93-27360 * # N93-2760 * # N93-27718 * # N93-27719 * # N93-27720 * # N93-27720 * # N93-27720 * # N93-27722 * #	p 282 p 310 p 274 p 274 p 283 p 311 p 275 p 283 p 283 p 311 p 311 p 311 p 311	N93-28939 # N93-28942 # N93-28952 *# N93-28977 *# N93-29041 *# N93-29174 *# N93-2916 *# N93-29216 *# N93-29274 # N93-29224 *#	p 321 p 321 p 276 p 321 p 285 p 321 p 276 p 276 p 286 p 277 p 277 p 321	N93-31231 # N93-31232 # N93-31233 # N93-31234 # N93-31236 # N93-31236 # N93-31236 # N93-31455 * #	p 343 p 343 p 343 p 344 p 344 p 344 p 360 p 360 p 365 p 365 p 365
N93-21402 # N93-21436 # N93-21498 # N93-21753 # N93-21753 # N93-21931 # N93-21931 # N93-22002 * N93-22163 * N93-22167 * N93-22188 * N93-22189 * N93-22189 *	p 194 p 173 p 194 p 195 p 195 p 195 p 159 p 159 p 174 p 195 p 174 p 174 p 195	N93-24405 # N93-24406 # N93-24406 # N93-24420 # N93-24431 # N93-24451 # N93-244502 # N93-24502 # N93-24502 # N93-24503 # N93-24738 # N93-24738 #	P 211 P 237 P 236 P 221 P 226 P 236 P 211 P 236 P 211 P 237 P 221 P 221 P 222 P 222 P 237	N93-27113 * # N93-27121 * # N93-27122 * # N93-27152 # N93-27158 # N93-27160 * # N93-27360 * # N93-27764 # N93-27719 * # N93-27720 * # N93-27722 * # N93-27722 * # N93-27722 * #	p 282 p 310 p 274 p 274 p 283 p 311 p 275 p 283 p 283 p 311 p 311 p 311 p 311 p 311	N93-28939 # N93-28941 # N93-28952 * # N93-28971 * # N93-29041 * # N93-29174 * # N93-29181 * # N93-2916 * # N93-29216 * # N93-29274 * # N93-29324 * #	p 321 p 321 p 321 p 276 p 321 p 285 p 321 p 276 p 276 p 286 p 277 p 277 p 321 p 322	N93-31231 # N93-31232 # N93-31233 # N93-31235 # N93-31236 # N93-31237 # N93-31454 * # N93-31455 * # N93-31455 * # N93-31457 * # N93-31457 * # N93-31573 * #	p 343 p 343 p 343 p 343 p 344 p 344 p 344 p 365 p 365 p 365 p 365
N93-21402 # N93-21436 # N93-21498 # N93-21753 # N93-21753 # N93-21795 # N93-21931 # N93-22002 # N93-22163 # N93-22167 # N93-22167 # N93-22188 # N93-22199 # N93-22191 #	p 194 p 173 p 194 p 195 p 195 p 195 p 159 p 159 p 173 p 174 p 195 p 174 p 196	N93-24404 # N93-24406 # N93-24406 # N93-24431 # N93-24441 # N93-24455 # N93-24500 # N93-24500 # N93-24763 * N93-24763 * N93-24763 # N93-25009 # N93-25104 #	P 211 P 237 P 236 P 221 P 226 P 236 P 211 P 236 P 237 P 221 P 221 P 221 P 222 P 237 P 237	N93-27113 * # N93-27121 * # N93-27122 * # N93-27152 # N93-27158 # N93-27177 N93-27360 * # N93-27664 # N93-27718 * # N93-27719 * # N93-27721 * # N93-27722 * # N93-27722 * # N93-27722 * # N93-27722 * #	p 282 p 310 p 274 p 274 p 283 p 311 p 275 p 283 p 311 p 311 p 311 p 311 p 311 p 311	N93-28939 # N93-28941 # N93-28952 # N93-28977 # N93-29041 # N93-29174 # N93-29181 # N93-29181 # N93-29216 # N93-29216 # N93-29216 # N93-29240 # N93-29340 # N93-29400 #	p 321 p 321 p 276 p 321 p 285 p 321 p 276 p 276 p 276 p 277 p 277 p 277 p 321 p 322 p 333 p 350	N93-31231 # N93-31232 # N93-31233 # N93-31235 # N93-31236 # N93-31237 * N93-31455 * # N93-31455 * # N93-31456 * # N93-31573 * N93-31729	p 343 p 343 p 343 p 344 p 344 p 344 p 360 p 360 p 365 p 365 p 365 p 365 p 365
N93-21402 # N93-21436 # N93-21498 # N93-21537 # N93-21753 # N93-21931 # N93-22002 * N93-22163 * N93-22164 * N93-22168 * N93-22189 * N93-22189 * N93-22191 * N93-22191 *	p 194 p 173 p 194 p 195 p 195 p 159 p 159 p 173 p 174 p 195 p 174 p 195 p 174 p 195 p 174 p 195 p 174 p 196	N93-24404 # N93-24406 # N93-24406 # N93-24431 # N93-24455 # N93-24455 # N93-24551 # N93-24551 # N93-24590 # N93-24763 # N93-24763 # N93-25104 # N93-25104 #	p 211 p 237 p 236 p 221 p 226 p 236 p 236 p 211 p 236 p 237 p 221 p 221 p 221 p 222 p 222 p 237 p 211 p 253	N93-27113 * # N93-27121 * # N93-27122 * # N93-27158 # N93-27158 * # N93-27177 N93-27360 * # N93-27409 # N93-27718 * # N93-27719 * # N93-27721 * # N93-27721 * # N93-27722 * # N93-27723 * # N93-27725 * #	p 282 p 310 p 274 p 274 p 283 p 311 p 311 p 311 p 311 p 311 p 311 p 311 p 311 p 311 p 312 p 312	N93-28939 # N93-28942 # N93-28952 # N93-28976 # N93-29041 # N93-29174 # N93-29181 # N93-29181 # N93-29216 # N93-29274 # N93-29340 # N93-29400 # N93-29406 # N93-29406 #	p 321 p 321 p 326 p 276 p 321 p 285 p 321 p 276 p 276 p 286 p 277 p 321 p 321 p 322 p 333 p 350 p 333	N93-31231 # N93-31232 # N93-31234 # N93-31235 # N93-31236 # N93-31236 # N93-31455 * # N93-31455 * # N93-31455 * # N93-31457 * # N93-31457 * N93-31457 * N93-31458 * # N93-31573 * # N93-31729 N93-31844 * #	p 343 p 343 p 343 p 344 p 344 p 344 p 360 p 365 p 365 p 365 p 365 p 363 p 363 p 363
N93-21402 # N93-21436 # N93-21498 # N93-21753 # N93-21753 # N93-21795 # N93-21931 # N93-22002 # N93-22163 # N93-22167 # N93-22167 # N93-22188 # N93-22199 # N93-22191 #	p 194 p 173 p 194 p 195 p 195 p 195 p 159 p 159 p 173 p 174 p 195 p 174 p 196	N93-24404 # N93-24406 # N93-24406 # N93-24431 # N93-24441 # N93-24455 # N93-24500 # N93-24500 # N93-24763 * N93-24763 * N93-24763 # N93-25009 # N93-25104 #	P 211 P 237 P 236 P 221 P 226 P 236 P 211 P 236 P 237 P 221 P 221 P 221 P 222 P 237 P 237	N93-27113 * # N93-27121 * # N93-27122 * # N93-27152 # N93-27158 # N93-27177 N93-27360 * # N93-27664 # N93-27718 * # N93-27719 * # N93-27721 * # N93-27722 * # N93-27722 * # N93-27722 * # N93-27722 * #	p 282 p 310 p 274 p 274 p 283 p 311 p 275 p 283 p 311 p 311 p 311 p 311 p 311 p 311	N93-28939 # N93-28941 # N93-28952 # N93-28977 # N93-29041 # N93-29174 # N93-29181 # N93-29181 # N93-29216 # N93-29216 # N93-29216 # N93-29240 # N93-29340 # N93-29400 #	p 321 p 321 p 276 p 321 p 285 p 321 p 276 p 276 p 276 p 277 p 277 p 277 p 321 p 322 p 333 p 350	N93-31231 # N93-31232 # N93-31233 # N93-31235 # N93-31236 # N93-31237 * N93-31455 * # N93-31455 * # N93-31456 * # N93-31573 * N93-31729	p 343 p 343 p 343 p 344 p 344 p 344 p 360 p 360 p 365 p 365 p 365 p 365 p 365

N93-31924 ACCESSION NUMBER INDEX

 N93-31924
 " p 361

 N93-31981
 " p 363

 N93-32006
 " p 363

 N93-32011
 " p 366

 N93-32015
 " p 366

 N93-32015
 " p 366

 N93-32018
 " p 366

 N93-32035
 " p 366

 N93-32064
 " p 366

 N93-32106
 " p 366

 N93-32112
 " p 367

 N93-32152
 " p 367

 N93-32152
 " p 367

 N93-32237
 p 367

 N93-32240
 " p 367

 N93-32242
 " p 367

 N93-32242
 " p 368

 N93-32242
 " p 368

 N93-32244
 " p 368

 N93-32245
 " p 368

 N93-32246
 " p 368

 N93-32247
 " p 368

 N93-32248
 " p 368

 N93-32249
 " p 368

 N93-32251
 " p 369

 N93-32254
 " p 369

 N93-32254
 " p 369

 N93-32254
 " p 369

 N93-32254
 " p 369</t

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AEROSPACE MEDICINE AND BIOLOGY

A CONTINUING BIBLIOGRAPHY

Abstracts

January - December 1993

TABLE OF CONTENTS

SP-7011	
Supplement	Page
372	1
373	37
374	73
375	111
376	151
377	199
378	239
379	271
380	323
381	357
382	375
383	397

REPORT DOCUMENT PAGE

1.	Report No.	2. Government Acc	ession No.	3.	Recipient's Catalog	No.		
	NASA SP-7011 (384)							
4.	Title and Subtitle			5.	Report Date			
	Aerospace Medicine and Bio	erospace Medicine and Biology			January 1994			
	A Cumulative Index to the 1			6.	Performing Organiza	ation Code		
					JTT			
7.	Author(s)			8.	Performing Organiza	ation Report No.		
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9.	Performing Organization Name and Address			10.	10. Work Unit No.			
	NASA Scientific and Technical Information Program		Program					
			rogiam	11.	Contract or Grant No	o .		
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12.	Sponsoring Agency Name and Address	s		13.	Type of Report and Period Covered			
1	National Aeronautics and Space Administration		tion		Special Public	ation		
	Washington, DC 20546-000			14.	Sponsoring Agency	Code		
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15.	Supplementary Notes			l				
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16.	Abstract							
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	through 383 of Aerospace							
	seven indexes: subject, personal author, corporate source, foreign technology, contract							
	number, report number, and	accession num	ıber.					
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17.	7. Key Words (Suggested by Author(s)) 18. Distribution Statement							
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	Aerospace Medicine Bibliographies		Unclassified - Unlimited					
	Biological Effects	Subject Category - 52						
	Diological Eliects							
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